

10/506549

```
1 ATGTCTTCCA AGAAGAATAG AAAGCGGTG AACCAAAGCG CGGAAAATGG
51 TTGCTCCTTG CCCTCTGCTG CTTCTCTTTG TGCGGAGGCA CGGGCTCCTT
101 CTGCTGGATC AGACTTGGCG GCAACCTCGG GGACTCTGAC GGTGACCAAC
151 TTATTAGAAA AGGATGACAA AATTCCTAAA ACATTCCAGA ATTCCCTTAT
201 TCATCTTGGA CTCAACACTA TGAAGTCTGC AAATATATGT ATAGGTGCGAC
251 CAGTGTGTCT TACTAGTTTG AACGGAAGGC AAGAGGTGTA TACAGCCTGG
301 CCTATGGCAG CATTTCCTGG AGGCAAGGTC GGCCTGAGTG AAATGGCACA
351 GAAAAATGTG GGTGTGAGGC CTGGTGATGC CATCCAGGTC CAGCCTCTTG
401 TGGGTGCTGT GCTACAGGCT GAGGAAATGG ATGTGGCACT GAGTGACAAA
451 GATATGGAAA TTAATGAAGA AGAACTGACT GGTTGTATCC TGAGAAAAC
501 AGATGGCAAG ATTGTTTAC CAGGCAACTT TCTGTATTGT ACATTCTATG
551 GACGACCGTA CAAGCTGCAA GTATTGCGAG TGAAGGGGCG AGATGGCATG
601 ATATTGGGAG GGCCTCAGAG TGACTCTGAC ACTGATGCCC AAAGAATGGC
651 CTTTGAACAG TCCAGCATGG AAACAGTAG CCTGGAGTTA TCCTTACAGC
701 TAAGCCAGTT AGATCTGGAG GATACCCAGA TCCCAACATC AAGAAGTACT
751 CCTTATAAAC CAATTGATGA CAGAATTACA AATAAAGCCA GTGATGTTTT
801 GCTGGATGTT ACACAGAGCC CTGGAGATGG CAGTGGACTT ATGCTAGAGG
851 AAGTCACAGG TCTTAAATGT AATTTTGAAT CTGCCAGAGA AGGAAATGAG
901 CAACTTACTG AAGAAGAGAG ACTGCTAAAG TTCAGCATAG GAGCAAAGTG
951 CAATACTGAT ACTTTTATT TTATTCTTC AACACAAGA GTCAATTTTA
1001 CAGAGATTGA TAAAAATCA AAAGAGCAAG ACAACCAATT CAAAGTAACT
1051 TATGACATGA TAGGAGGATT AAGTAGCCAG CTGAAAGCAA TTAGAGAAAT
1101 AATTGAATTG CCCCTCAAAC AGCCTGAGCT TTTCAGAGT TATGGAATTC
1151 CTGCCCTAG AGGAGTGTTA CTTTATGGTC CTCCAGGTAC TGGAAAAACA
1201 ATGATCGCCA GGGCTGTTGC TAATGAAGTT GGAGCCTATG TTTCTGTAAT
1251 TAATGGTCTT GAAATTATAA GCAAATCTA TGGTGAGACT GAAGCAAAGT
1301 TACGTGAGAT ATTGCTGAA GCCACTCTAC GACACCCATC AATTATTTTT
1351 ATTGATGAGC TGGATGCACT TTGTCCGAAA AGAGAGGGGG CCCAGAATGA
1401 AGTGGAAAAA AGAGTTGTGG CTTCACTCTT AACACTGATG GATGGCATTG
1451 GTTCAGAAAGT AAGTGAAGGA CAAGTGTTGG TTCTTGGGGC CACAAATCGC
1501 CCTCATGCCT TGGATGCTGC TCTCCGAAGA CCTGGGCGAT TTGATAAAGA
1551 GATTGAGATT GGAGTCCCA ATGCTCAGGA CCGGCTAGAT ATTCTCCAGA
1601 AACTGCTTCG AAGGGTACCC CATTGCTCA CTGAGGCTGA GCTGCTGCAG
1651 CTGGCAAATA GTGCTCATGG ATACGTTGGA GCAGACTTGA AAGTCTTGTG
1701 TAATGAAGCA GGTCTCTGTG CCTTGGCGAG AATCCTGAAA AAACAGCCTA
1751 ACCTCCCTGA TGTCAAGGTG GCTGGACTGG TGAAGATTAC TCTGAAGGAT
1801 TTCTTGCAAG CAATGAATGA TATCAGACCC AGTGCCATGA GGGAAATAGC
1851 AATTGATGTC CCAATGTAT CCTGGTCAGA TATAGGAGGA CTGAAAAGTA
1901 TCAAACTGAA GTTGGAACAG GCTGTGGAAT GGCCCTTAAA ACATCCAGAG
1951 TCTTTCATTC GAATGGGTAT TCAGCCACCT AAAGGAGTTC TTCTCTATGG
2001 GCCACCTGGG TGCTCTAAAA CAATGATAGC AAAGGCTTTG GCCAATGAGA
2051 GTGGACTGAA TTTTCTAGCT ATAAAGGGGC CTGAATTAAT GAATAAATAT
2101 GTTGGTGAAT CTGAAAGAGC AGTTAGAGAG ACCTTCCGAA AAGCAAGAGC
2151 AGTGGCGCCT TCCATTATTT TCTTTGATGA ACTGGATGCC TTAGCAGTTG
2201 AAAGGGGCGAG TTCTTTAGGT GCTGGGAATG TAGCCGATCG TGTTTTGGCT
2251 CAGCTCTTAA CAGAAATGGA TGGGATTGAA CAGCTAAAGG ATGTGACCAT
2301 TTTGGCAGCT ACTAACCGTC CAGATAGGAT AGACAAGGCT TTGATGCGGC
2351 CTGGAAGAAT TGATAGAATC ATCTATGTGC CTTTACCGGA TGCAGCAACA
2401 AGAAGGGAAA TATTTAAGCT GCAGTTTCAC TCCATGCCTG TCAGTAATGA
2451 AGTTGACCTG GATGAACTCA TCCTTCAAAC CGACGCATAC TCAGGAGCAG
2501 AGATTGTAGC TGTCTGCAGA GAGGCAGCTC TTCTGGCTCT GGAAGAAGAC
2551 ATTCAAGCCA ATCTCATCAT GAAAAGACAT TTCACTCAGG CCTTGAGCAC
2601 TGTGACACCT AGAATTCCTG AGTCATTGAG ACGTTTTTAT GAAGATTATC
2651 AAGAGAAGAG TGGGCTGCAT ACACTCTGA (SEQ ID NO:1)
```

## FEATURES:

Start Codon: 1

Stop Codon: 2677

FIGURE 1A

## HOMOLOGOUS PROTEINS:

## Top 10 BLAST Hits:

					Score	E
CRA	18000005197945	/altid=gi	10946660	/def=ref	NP_067318.1	(NM... 1395 0.0
CRA	98000043618036	/altid=gi	12847023	/def=dbj	BAB27406.1	(AK0... 1392 0.0
CRA	83000031771150	/altid=gi	14602090	/def=ref	NP_148637.1	(NC... 595 e-168
CRA	335001098642471	/altid=gi	11498895	/def=ref	NP_070126.1	(N... 593 e-168
CRA	50000098922782	/altid=gi	15669345	/def=ref	NP_248150.1	(NC... 591 e-167
CRA	83000031770426	/altid=gi	14601365	/def=ref	NP_147901.1	(NC... 590 e-167
CRA	223000018401032	/altid=gi	18159541	/def=gb	AAL62959.1	(AE0... 588 e-166
CRA	18000005144849	/altid=gi	7490056	/def=pir	T40537 AAA fami...	581 e-164
CRA	50000098926394	/altid=gi	15679634	/def=ref	NP_276751.1	(NC... 578 e-163
CRA	223000002644325	/altid=gi	15920392	/def=ref	NP_376061.1	(N... 576 e-163

## Blast hits to dbEST:

CRA Number	gi Number	Score	Expect
CRA 46000021337349	gi 9791981	1170 bits (590)	0.0
CRA 46000021359662	gi 9794006	1015 bits (512)	0.0
CRA 1000490140751	gi 5339414	888 bits (448)	0.0
CRA 3000001162535	gi 3086717	839 bits (423)	0.0
CRA 3000001146260	gi 3070203	704 bits (355)	0.0
CRA 156000059690462	gi 10568861	624 bits (315)	1e-176
CRA 46000021357847	gi 9793841	500 bits (252)	1e-138
CRA 3000001604381	gi 2656600	472 bits (238)	1e-130

## EXPRESSION INFORMATION FOR MODULATORY USE:

## library source:

gi Number	Organ	Tissue Type
gi 9791981	(none)	pooled germ cell tumors
gi 9794006	(none)	pooled germ cell tumors
gi 5339414	kidney	kidney tumor
gi 3086717	(none)	pooled germ cell tumors
gi 3070203	(none)	pooled germ cell tumors
gi 10568861	brain	primitive neuroectoderm
gi 9793841	kidney	
gi 2656600	Liver and spleen	

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1  MSSKKNRKRL  NQSAENGSSL  PSAASSCAEA  RAPSAGSDFA  ATSGTLTVTN
51  LLEKDDKIPK  TRQNSLIHLG  LNTMKSANIC  IGRPVLLTSL  NGKQEVYTAW
101 PMAGFPGGKV  GLSEMAQKNV  GVRPGDAIQV  QPLVGAVLQA  EEMDVALSDK
151 DMEINEEELT  GCILRKLDGK  IVLPGNFLYC  TFYGRPYKLQ  VLRVKGADGM
201 ILGGPQSDSD  TDAQRFMAFEQ  SSMETSSLEL  SLQLSQLDLE  DTQIPTSRST
251 PYKPIDDRIT  NKASDVLDDV  TQSPGDGSG  MLEEVTLKLC  NFESAREGNE
301 QLTEEEERLLK  FSIGAKONTD  TFYFISSTTR  VNFTEIDKNS  KEQDNQFKVT
351 YDMIGGLSSQ  LKATRETIEL  PLKQPELFKS  YGIPAPRGVL  LYGPPGTGKT
401 MIARAVANEV  GAYVSVINGP  ETISKFYGET  EAKLRQIFAE  ATLRHPSIIF
451 IDELDALCPK  REGAQNEVEK  RVVASLLTLM  DGIGSEVSEG  QMLVLGATNR
501 PHALDAALRR  PGRFDKEIET  GVPNAQDRLD  ILQKLRRVP  HLLTEAELLQ
551 LANSAGHYVG  ADLKVLENEA  GLCALRRILK  KQPNLPDMKV  AGLVKITLKD
601 FLQAMNDIRP  SAMRETAIDV  PNVSWSDIGG  LESIKLKLEQ  AVEWPLKHPE
651 SFIRMGIOPP  KGVLLYGPPG  CSKTMIAKAL  ANESGLNFLA  IKGPELMNKY
701 VGESERAVRE  TFRKARAVAP  SIIFDELD  LAVERGSSLG  AGNVADRVLA
751 QLLTEMDGIE  QLKDVITLAA  TNRPDRIDKA  LMRPGRIDRI  IYVPLPDAAT
801 RREIFKLQFH  SMPVSNEVDL  DELILQTDAY  SGAETVAVCR  EAALLALEED
851 IQANLIMKRH  FTQALSTVTP  RIPSRLRRFY  EDYQEKSLH  TL  (SEQ ID NO:2)

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## FEATURES:

Functional domains and key regions:

Prosites results:

PDOC00001 PS00001 ASN\_GLYCOSYLATION

N-glycosylation site

Number of matches: 5

1	11-14	NQSA
2	16-19	NGSS
3	332-335	NFTE
4	622-625	NVSW
5	682-685	NESG

PDOC00005 PS00005 PKC\_PHOSPHO\_SITE

Protein kinase C phosphorylation site

Number of matches: 18

1	2-4	SSK
2	73-75	TMK
3	148-150	SDK
4	246-248	TSR
5	260-262	TNK
6	294-296	SAR
7	328-330	TTR
8	397-399	TGK
9	442-444	TLR
10	498-500	TNR
11	597-599	TLK
12	633-635	SIK
13	704-706	SER
14	711-713	TFR
15	771-773	TNR
16	800-802	TRR
17	869-871	TPR
18	875-877	SLR

PDOC00006 PS00006 CK2\_PHOSPHO\_SITE

Casein kinase II phosphorylation site

Number of matches: 17

1	26-29	SCAE
2	148-151	SDKD
3	207-210	SDSD
4	221-224	SSME
5	226-229	SSLE
6	235-238	SQLD
7	273-276	SPGD
8	294-297	SARE
9	303-306	TEEE
10	334-337	TEID
11	478-481	TLMD
12	544-547	TEAE
13	597-600	TLKD

FIGURE 2A

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14 624-627 SWSO  
 15 754-757 TEND  
 16 800-803 TRRE  
 17 831-834 SGAE

PDOC00007 PS00007 TYR\_PHOSPHO\_SITE  
 Tyrosine kinase phosphorylation site  
 316-323 KONTDTFY

PDOC00008 PS00008 MYRISTYL  
 N-myristoylation site

Number of matches: 14

1 36-41 GSDFAA  
 2 107-112 GSKVGL  
 3 121-126 GVRPGD  
 4 199-204 GMILGG  
 5 287-292 GLKCNF  
 6 314-319 GAKCNT  
 7 355-360 GGLSSQ  
 8 396-401 GTGKTM  
 9 411-416 GAYVSV  
 10 484-489 GSEVSE  
 11 521-526 GVPNAQ  
 12 629-634 GGLEST  
 13 670-675 GCSKTM  
 14 736-741 GSSLGA

PDOC00013 PS00013 PROKAR\_LIPOPROTEIN  
 Prokaryotic membrane lipoprotein lipid attachment site  
 17-27 GSSLPSAASSC

PDOC00017 PS00017 ATP\_GTP\_A  
 ATP/GTP-binding site motif A (P-loop)  
 393-400 GPPGTGKT

PDOC00572 PS00674 AAA  
 AAA-protein family signature  
 Number of matches: 2  
 1 492-510 VLVLGATNRPHALDAALRR  
 2 765-783 VTILAATNRPDRIIDKALMR

Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	32	52	0.667	Putative
2	96	116	0.614	Putative

FIGURE 2B



## BLAST Alignment to Top Hit:

>CRA|18000005197945 /altid=gil10946660 /def=ref|NP\_067318.1|  
 (NM\_021343) spermatogenesis associated factor [Mus  
 musculus] /org=Mus musculus /taxon=10090 /div=ROD  
 /dataset=nraa /length=892  
 Length = 892

Score = 1490 bits (3814), Expect = 0.0

Identities = 759/893 (84%), Positives = 813/893 (90%), Gaps = 1/893 (0%)

Frame = +1

Query: 1 MSSKKNRKRNLQSAENGSSLPAASSCAEARAPSAGSDFAATSGTLTVTNLLEKDDKIPK 180  
 MSSKKNRKR + AE S SAA S + P A AA G L VTN LEK D K+PK  
 Sbjct: 1 MSSKKNRKRKQEGAEGASPSLSAAPSRSSTPFAQPSAAP-GMLVVTNFLEKDGKVPK 59

Query: 181 TFQNSLIHLGLNTMKSANICIGRPVLLTSLNGKQEVYAWPMAGFPGGKVGLEMAQKNV 360  
 TFQNSL+HLGLNTMKSANICIGRPVLLTSL+GKQEVYAWP+AGFPGGKVGLEMAQKNV  
 Sbjct: 60 TFQNSLVHLGLNTMKSANICIGRPVLLTSLDGKQEVYAWPVAGFPGGKVGLEMAQKNV 119

Query: 361 GVRPGDAIQVQLVGAVLQAEEMDVALSDKMEINEEELTGCIIRKLDGKIVLPGNFLYC 540  
 GVR G+ IQVQL+GAVLQA+EMD+ALSDK MEINEEELTGCIIRKLDGKIVLPGNFLYC  
 Sbjct: 120 GVRAGETIQVQLLGVAVLQAQEMDALSDKKEINEEELTGCIIRKLDGKIVLPGNFLYC 179

Query: 541 TFYGRPYKLQVLRVKGADGMILGGPQSDSDTDAQRMFEQSSMETSSLELSLQSLQDL 720  
 TFYGR KLQVL+VKG DG LG PQS S TDAQ MA E SSME S ++LS LQSLQDL+  
 Sbjct: 180 TFYGRCLKLQVLQVKGTDGTTLGKQASGTDAGQMASEHSSMENSVDLSFQSLQDLK 239

Query: 721 DTQIPTSRSTPYKPIDDRITNKASDVLDDVTQSPGDGSGMLLEEVTGLKNFESAREGNE 900  
 + Q P+S+STP KP +DR NKA +VLDDVTQSP DGSGL LEE TGLKC+F+S++EGN  
 Sbjct: 240 EPQSPSSQSTPCKPTNDRITVKNAGEVLLDVTQSPRDGSGGLEESTGLKCSFDSSKEGNT 299

Query: 901 QLTEERLLK-FSIGAKNTDTFYFISSTTRVNFTEIDKNSKEQDNQFKVTYDMIGGLSS 1077  
 Q EE+LLK S G K NTDTFYFISSTTR+N +I NSKEQ+QFKVTYDMIGGL+S  
 Sbjct: 300 QPVSEKLLKPASAGTKSNTDTFYFISSTTRINLRKICTNSKEQDSQFKVTYDMIGGLNS 359

Query: 1078 QKATREITIELPLKQPELFKSYGIPAPRGVLLYGPPGTGKTMARAVANEVGAYVSVING 1257  
 QKATREITIELPLKQPELFKSYGIPAPRG+LLYGPPGTGKTMARAVANEVGAYVSVING  
 Sbjct: 360 QKATREITIELPLKQPELFKSYGIPAPRG+LLYGPPGTGKTMARAVANEVGAYVSVING 419

Query: 1258 PETISKFYGETEAKLRQIFAEATLRHPSIIFIDELDALCPKREGAQNEVEKRWASLLTL 1437  
 PETISKFYGETE+LRQIFAEATLRHPSIIFIDELDALCPKREGAQ+VEVEKRWASLLTL  
 Sbjct: 420 PETISKFYGETEARLRQIFAEATLRHPSIIFIDELDALCPKREGAQSEVEKRWASLLTL 479

Query: 1438 MDGIGSEVSEGMVLVLGATNRPALDAALRRPGRFDKETETGVPNAQDRLDILQKLLRRV 1617  
 MDGIGSE SEG+VLVLGATNRP ALDAALRRPGRFDKETETG+PNAQDRLDILQKLLRRV  
 Sbjct: 480 MDGIGSEGESEGRVLVLGATNRPQALDAALRRPGRFDKETETGIPNAQDRLDILQKLLRRV 539

Query: 1618 PHLLTEAELLQLANSAHGYVGADLKVLONEAGLALRRILKKQPNLPDMKVAGLVKITLK 1797  
 PHLLT+AELL+LAN+AHGYVGADLK LONEAGL ALRR+L+KQPNLPD KVAG+VKITLK  
 Sbjct: 540 PHLLTKAELLRLANNAHGYVGADLKALONEAGLALRRVLRKQPNLPDSKVAGVMKITLN 599

Query: 1798 DFLQAMNDIRPSAMREIAIDVPNVSWSDIGGLESIKLEQAVEWPLKHPESFIRMGIQP 1977  
 DFLQ MNDIRPSAMRE+AIIDVPNVSWSDIGGLE+IKLEK+QAVEWPLKHP+SF RMGIQP  
 Sbjct: 600 DFLQGMNDIRPSAMREVAIDVPNVSWSDIGGLENIKLEKQAVEWPLKHPKSFNRMGIQP 659

Query: 1978 PKGVLLYGPPGCSKTMIAKALANESGLNFLATKGPPELMNKYVGESERAVRETFRKARAVA 2157  
 PKGVLLYGPPGCSKTMIAKALANESGLNFLATKGPPELMNKYVGESERAVRE FRKARAVA  
 Sbjct: 660 PKGVLLYGPPGCSKTMIAKALANESGLNFLATKGPPELMNKYVGESERAVREIFRKARAVA 719

Query: 2158 PSIIFFDELDAVERGSSSGAGNVADRVLAQLLTEMGIEQLKDVTLAATNRPDRIDK 2337  
 PSIIFFDELDAVERGSS GAGNVADRVLAQLLTEMGIEQLK+VT+LAATNRPDRIDK  
 Sbjct: 720 PSIIFFDELDAVERGSSSGAGNVADRVLAQLLTEMGIEQLKNVTLAATNRPDRIDK 779

FIGURE 2C

Query: 2338 ALMRPGRIDRIITYVPLPDAATRREIFKLQFHSMPSNEVDLDELILQTDAYSGAETVAVC 2517

ALMRPGRIDRIITYVPLPDAATRREI LQFHSMPSNEVDLDEL+LQTD YSGAET+AVC

Sbjct: 780 ALMRPGRIDRIITYVPLPDAATRREILNLQFHSMPSNEVDLDELVLQTDYSGAETIAVC 839

Query: 2518 REAALLALEEDIQANLIMKRHFTQALSTVTPRIPESLRRFYEDYQEKSGLHTL 2676

+EAALLALEE+I+A+ IMKRHFT+ALS VTPRIPESLRRFYEDYQEKSGLHT+

Sbjct: 840 KEAALLALEENIKADCIMKRHFTALSTVTPRIPESLRRFYEDYQEKSGLHTV 892 (SEQ ID NO:4)

## Hmmer search results (Pfam):

Scores for sequence family classification (score includes all domains):

Model	Description	Score	E-value	N
PF00004	ATPases associated with various cellular act	603.4	1.3e-177	2
PF01057	Parvovirus non-structural protein NS1	23.0	5.4e-06	2
PF00910	RNA helicase	14.5	0.005	2
PF01695	IstB-like ATP binding protein	6.6	1.4	1
PF00158	Sigma-54 transcription factors	6.4	1.1	1
PF00580	UvrD/REP helicase	4.8	1.1	1
PF01745	Isopentenyl transferase	3.3	6.3	1
PF01202	Shikimate kinase	3.3	8.9	1

## Parsed for domains:

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
PF01695	1/1	389	405 ..	52	68 ..	6.6	1.4
PF00158	1/1	389	406 ..	25	42 ..	6.4	1.1
PF01202	1/1	387	408 ..	1	22 [.	3.3	8.9
PF01745	1/1	386	412 ..	1	27 [.	3.3	6.3
PF01057	1/2	389	413 ..	172	200 ..	15.5	0.0009
PF00910	1/2	389	413 ..	126	150 ..	13.1	0.012
PF00580	1/1	524	554 ..	700	731 .]	4.8	1.1
PF00004	1/2	388	576 ..	1	220 □	288.9	6.3e-83
PF01057	2/2	663	681 ..	172	194 ..	7.9	0.16
PF00910	2/2	663	682 ..	126	145 ..	1.4	22
PF00004	2/2	662	848 ..	1	220 □	320.7	1.7e-92

FIGURE 2D

1 CAAGCTTTCT TATCATTTGGG CTCAAGGTTG AAAGCCAGTA AAAAGTTTTC  
51 TTATTGAAGA CTGAAACAC CCACCACCGT CCCTGGTTAA TCATAAAAGA  
101 AGCGTTATTC TAAAAAACTC CAGTTCTCGC TGAGACAGCT GTTGACCCAA  
151 TTTGTATACA AATGTGACAC TCTGAACCTC TCTGGTTTAG TATTTGATAG  
201 CCCAACAGGG TGAATATATT CAATAAAGAT TCAGGCTGGG TGCAGTGGCT  
251 CCTGCCTGTA ATCCAGCAC TTTGAGGGGC CAAGGCGGGA GAATCAGTTG  
301 AGCCCGGAG ACTGAGACCA GCCTGGGCAA CACAGTGAGA CACCGTTTCT  
351 AGAAAAATA GAAAAAGCC AGATGCGCGC CTGTAGTCTT AGCTACCCAG  
401 GAGGCTGAGG TGGGAGGATT GCTTGAGCTC AGGGGTTGGA GGCTGCAGTG  
451 AACCTGATC CTACCACTGC ACTCTAGCCT GGGAGACAGA ATGATACCCT  
501 CTCTCAAAAA AAAAAAATA ACTGTACATT TAAAAATAAC  
551 TAAGAGTAAC TGGATTATGG TTGAATGCTT GTGGTGATGA GTATCTCATT  
601 TACCCTGATG TAATTATTAC ACATTTATAC CTCTATCAAA ATAGCTCATA  
651 TACCCCATAA ACATACACAC CTACTATGGA CCCACAAAAA TAAAAATAA  
701 AAAAGAAAAA CCTCTTTGGT CCACTCAGTC CACCACCGT ATTAGAATGT  
751 AAGAGTTTTT TTCTTTGGGA AAAGTGTCCG ACAGAACCAG GGCTCGGTAA  
801 AGGATACTAA TAATGTAATA ATATAATATT AACAAACATC TACTGAGCTT  
851 TAAATACGTG GCAGGCACTG TGCTGTGCAC TTTATGTGCA TTATCCAAAT  
901 TAACTCTCAG TAATTCCAGG AGTTCTTATC ACCGGGGTCT GTGGAAGAGG  
951 AAATGGTGGT TTACCGCAAT TTCCGAATGT CGCACAGTAG AAAGTGGACC  
1001 AGCAACCAGG GTTGACAGATC CCAAAGTCCG GGATCTTCAC CATTTACCCC  
1051 AACCGCCTTA GAGACCTCCC AGCAAAAGGT CTAAGCAGGA ATGCTCCAGA  
1101 AAACAGGTCC AGGTACAGCG TGCTTCTTCC CTTTCCCTCT GGGCTCGACA  
1151 GTGGTGACCA GAGCGACTAG GGAGTGGGGG CCGCGTTAT TTCATTAGAA  
1201 AAGCTCTGGA GCCCGGGAG CCCTTCGTCC CAGGCGCACT TGCCCTGCAA  
1251 GCCCTTCTGG AAGGCGGCAG CGTCCAGGCG GTCCAGCGCA TCGAGCCGCG  
1301 CCAGGCGCAC CGAGATGCCC CCGAATCTGT CCAGCTCGCC CTGCAGATCG  
1351 CAGGCTCCAA CTGGCGGATT CCGCACGTAA CCCTGTGCGC CCGAGGCCCA  
1401 GCGGTAACCC GCCGAAGGCC CGGGGCCGTA GGTTCGGGCA AGCATCGCGC  
1451 GCCAGCGGCC CCAGCTCAGC GGCTGCCGCA TCTCCACGCC GCTTAATTCTG  
1501 TCCGTTGCCC AAATGACCCC TCCGCGCTCC AGAGCGGAGA TCGCGGCCGT  
1551 ACATTTTAGA AGAGTGCCAT CAATACCCCT AGAGTTGAGC TGGGGTTACC  
1601 ACTCTGCAGA GCTATGCCAA GGAGACCGCG AAGTGGTCCA CCAGCCCTTC  
1651 TCAGCAATTT GCCCGCTCC AGTTAAGCGG GGAAACCTC CTCGCCACCC  
1701 GCCACTCACT TATTTTGT TTGAGTTTAA TTCAACAGAC GTTGGTTTAG  
1751 GGATGGGGAA GCCCGGAGGA GATGCAAAAA CGTCTGT TTTTACAGAT  
1801 TACAATCTAA GTGGCAGTTC CGTTCTGGA ACCTATCTTC TTTTACAGAT  
1851 GCGGTTACAG CTGTTTCAAA GACTGCTGGT TTTGAAAACG CTCAGTCCCT  
1901 CCCACACCC TGTCGACTGC TGCGCTCCAC TCAGGGGATT ACGGCGCAGG  
1951 GGCGGACCCT CGCTGACTTC TGCCCGGAA GTTTTCTCT CAGTTGAAGC  
2001 GCGCACATTG AGTCCGCTTT TCTACTGCTT CCGCTAGGGT ACCTTGTGAC  
2051 CATGTCTTCC AAGAAGAATA GAAAGCGGTT GAACCAAAGC GCGGAAAATG  
2101 GTTGCCTGCT GCTTCTCTT GCTTCTCTT GTGCGGAGGC ACGGGCTCCT  
2151 TCTGCTGGAT CAGACTTCGC GGCAACCTCC GGGACTCTGA CGGTGACCAA  
2201 CTTATTAGAA AAGGGTAAAG AATTCCGGGT GGGAGACTAG AGGCGGAGGG  
2251 GCGCAACCT GAGGGGCGGG AGACTCAGTG ATACTGACTT GGGGTGCAGA  
2301 GACTTTTGA AGTTGGGCGT GGCAATGGGTC TGAGAGCGGC ACAGAAGCGT  
2351 GTAAGACTTC TGTATGTAAG AAGCATGCAA ACGTAGCCGC GCCTGCACTG  
2401 GAGAAGTTAG GCTGAAATGG TTTATCCGTG TCCAAGGTTT CTCTTTTGT  
2451 AATTATTTTG AATTTTAAAG TTGCACTTGA AACGCTTTGT CTCATTTAAC  
2501 ATTAACGACA CATTTAATTG CAAAATTGTT CATAACTAGC GAACATGGGA  
2551 TACTTATCCT AAAAACTAA ATAACCAATT CAGTAAAAAT GTGGATCACT  
2601 CTGCCTTTAG GAGTGATGAT AGCATTTTCT TCCAGTACTA CGCAGGTTAT  
2651 GATATTTAAT AACTGCTAGT AACTGCACAC TAGTGTAGC AGTATATATA  
2701 GCTCATCTAA TTTCTACAGA AGCCGTGACC GATGGGTATA GTAATGACAG  
2751 TTTTATAGAG GGAGGAAAGT TAACGTGATT CCATTACGGC TACACAGGTG  
2801 CTAAGTGGA GAGCGGATAT TTGAGTCCAG ATGTGTTTGA CTTAAAAAGC  
2851 ATTCTAGAT GACAGCTCCT TTGATTTGGG AGAACGTATT TATACTGAAA  
2901 AGTCTTATAA ATTGAATTAA AAATTGAAAA TTTATATTG ATGTGTAATA  
2951 GCTTTGAAAA ATGGACCAGA CTAGTGGCAA AAACTTTAT GTCTAATCAG  
3001 ACCTTAAAGA CAATTTAGAG TTCACATGGT ATTTTCACTC TGCCTTAGGT  
3051 ATCAGAGGAC AACTTGTTCT GTCCTGAAGG TTCAACTTGT TTTTGAACCTA  
3101 GATCCTTCCC ATTGACATGT AAACATGCTC ATTTCTCTC CATCTTAAAT  
3151 CAGAACAAAA GCTCCACATT TTCTTCTGTC AACCGTCTCT CTATCCATTG  
3201 CCAAGCTTCT TAAATGGAGT GGTCTCTGCC GCCTCACCAC TTACATACTC  
3251 TCCTAGCCT ATTCCTCTT GACTTCCACC CCATCATTC ATGGAAAACCTG  
3301 TTCCTGGTGT GGTCTCCGAG CATCTCCGTG TTGATAAAC TTACGTGACC  
3351 ACAGCAACTT TTGGTATTGT TGACCATTC CTCCTTCTCG AAACACTTAA  
3401 CTTCCTATGT GTTGTCAAAC TTGCTGGT TTCTTCATCT TTGTTGATGT  
3451 TTCATCATTT TTCTTTGCAG GCTCGTCTC TTCCCTTGAC CATTAAATGT

FIGURE 3A

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3501 TGAAGTTCGT CAATTCCTTAG TCCAAAACCT TTTTTTTCCT CTCAATAAAT
3551 CCTGTCTCCT TGCCAAGTTC ATCCAGTGCC CAGAGTTTCC CATCTATAGT
3601 CTCTTCAGTG TCAGATTTAT ATTTGTAAAT CTTTGTGTTT TGGGCTTGA
3651 TGTGGTTGCC TTTTAGCCAA ATGCTTCTCA AGCTCTCTGT GGTGAAGACT
3701 TTA AAAATTTA TAATAGGTCA CAGATCGGCA CTTTCTAAA ATACAGTAAA
3751 AATGATTTTC TAGAAAAATA AGGAAAAATT TTTATTAAC AGATGTGAAA
3801 TTA CTCTGTA AATTTCAATA AAAGCTTCTA TATACTTATT CTCCTGTTT
3851 GTACTTGTCA TGAAGCAGTA ACAAATCGTT GTGGGTCATA TTTTGATAG
3901 CACTGTACAA TAACCTCTCT CATGAGTGTC CCAAAGATAC TTCAGGACTA
3951 ACTTCATGAG CCGGTATTTT CCTCCAACAA AATAAACTTC AACTCTGTTT
4001 AGTTTTTCCC GCTGCAAAAT CAGAAACCTA AGAGTCATCC ATGACTCTCC
4051 CCCCCATATC TCACATACCT AGTCCACCAC TAAATCATGT TATTACCTAA
4101 ATATTTTACA TATTCCTCTT CTGCATGCCA TTCCCACTGT TTCTACCTTA
4151 ATTTTCAGACA CCATCATCTC TCACCTGGAC TGCTACAACA GCCTTTTGAC
4201 TGATTTTCCA GCTTCCAATT TTGCCCTTA TTCTTTTCC ATTCTGCAGC
4251 CAGAATGATC TTGTAAGATG AAGATCTTGT CATGACATTG CTTTTCATCC
4301 CTTTCTGGGC TCCCACTGCT GTCAGAGTAA TGACCAGCAT CTTGATGCAG
4351 CCTATTGCAC TATTGTCTGT GGTGGTCTTG ACCTTCTTTA CATGGCTTCC
4401 CTATGTCTCC ACCACTCTGC CTATACTCTC CTGAGGATGC GCCATACCCC
4451 CTTCTGCCCA GGAACCTTGT ACATGCTGTC CTCCTTGTCT AGAATTATCT
4501 TTTTCTCTC CTCACTTAGT TAGTCTCTAC TCTTCTTTCA GACCTGATCT
4551 TAACATCACT TCCTTTGAGA AACATTCTCT TATTTGAAAT TAGGTCAGAT
4601 CCCACATGGC TCTCCTGGCA CTCTAAGTCA TTTTTCATT GTATTAATCT
4651 TAGTTTATTA TTTTACAGCT ATCCACTGAT TGTTTAATAA CTCACATC
4701 CTACAAGGCT ATAAACTCTG TGAGACCAAG GACTTGTGAA CAAAAGTGCC
4751 TAGCATAGTA TCTTTCATAT AGTAGGCACA TAGTACATAT TTGCTGAATG
4801 AATAAATGAA GGGTGGATGG TTGTTTGAAA TTATCTTTAC TATCTTGTTA
4851 GTTAATGTGA TACTTAAGGT GCTCAATAAA TGTGAAAGTA GTTAATGGGG
4901 AAATTAGATG TTGACATATT TTTAAAGTAT TGGAGGAGTG AGGTGAGAAG
4951 GGAACCTGTG GGACAACCTG AGTAGACCTA TATAGTGTAA GCAGAGAACA
5001 CGTTGGTGAT GTTTTGAAAA ATGAGACCAG TGGCTGGGAA TTTGAACATG
5051 ATTACCATTG AAAGACAAGG TGGAGAATAA ATCCTGGGAC ATGGAGAATG
5101 TGCTGGATAG GGTGGAAGGA GAAGAAGAAA ACTAAAGTCT TGGGAAGGAC
5151 TGAGAACACT TGTGTGGTAA TTGTCAAGAG GGAAAGATAG TTCATTGAGG
5201 TTTAGGAAGA AAGAGGCAGG AACTGAATAT TATGAGATCA TCTAACAGCA
5251 GTATGCTTTA CTGTTAATGA CCAGCAAACA ATGTAAGAGA ACTAATGCTC
5301 ATTGGAAGGT TGAATTTCTG TCCAGCTTCT TGTATTATGC AGTATGTGTT
5351 CATTTGTTT TATACTCAGT GCTGTTTCATC TTAGCTCTGT GAGATGCTTT
5401 GTTTTTCTAG ATTTGCACCT CATATAAGAA GGAAAAGAAA TGTGTTGGGG
5451 AGTTGTTTTG TAGTGACAGA ATAATGTAAA TCATATGGGT ACCTTATGGT
5501 TTTCTTTTCC TTGATTTAAT TTCTTTTTTA TTACAGAATA TCTGTTTTCT
5551 GATTATTAAG GAAAACCTAG GTAGAGCTCT GTGATTATGG TATATATGTT
5601 TACAATAAAT TTTATAATGA AGTTGTGACA TTTTAAATT CTCTAAGTGT
5651 TTCATAGATT TTGTGCTGAA AAGAAAACCA TTGTATACTT ATTTACTACA
5701 TTTATTCATT TTATGGCTAT TTATTGTGCA ACTGCTATAT TTAATGCACT
5751 GTAAGCATTG GAGATACAGA GAGAAATAGG ACCCAATTCC TGCTTCAAAG
5801 CAGTATACAA TTAAGGAGAA AGACTAAAAC AAATGAATAT TATGGTAAAT
5851 GCTATTAAC TGGACACAG AGTGCTGGAG GAATTAGAGG AGGGACACCT
5901 AACTAAATAT GGAGCTTGGT GGGGGTGGGG TGGATAGAAA GGAGTGGAGA
5951 TGACAGCACA TCATTTTCAG AGGTGTTGTT AACTGGCCTG AATTCTGGAC
6001 CCCCTTTTTC AGCCAAAAGT TGAAATCACT AGTGGTGTGT GTTCGTATAA
6051 GGAAGACGAC TTCTGTTACT ATCTTTACGT ATTCTTGGTA ATACAAAAGA
6101 AAAAGATCTG GTGACCATAA TGTGGGCGAG AAGTAGAAAC ATAACCTAAT
6151 CCTCTAGAGC CAGATAGATG TGCCAGTTCC CAGTTCAATC CTTTGAATAC
6201 TAGTAGCTGA CTCAACTTTG AACTTAAAGC TCAGAGACTC TCTTTTGCAA
6251 TTATGTTTAC TTCCTAATGA AATTAGAGAC TCAGAAAAAA AGAAACCAAT
6301 ACTCACCCCA TAAAAACATC TCTTTTATG TAATACTTAA TATGTTGCCA
6351 GTAGACCCCTC AAAAGCATTT GATTTTAAAT CTGTTTGTG ATAACAAAAG
6401 TTGGAACACT AGTTTCTCCA GGGTATGGTA AGTACATTCA TGTGGTTATA
6451 TGGTTAGAGT ATTTTATTTT ACTGCAAAAG AAAGCATGCC TTAACCTCTG
6501 TTACAAAGTA GTACAAAAT AATTTTCTTT TCCTTCATAG TAGATGACAA
6551 AATTCTTAAA ACATTCAGTA ATTCCTTAT TCATCTTGA CTCAACACTA
6601 TGAAGTCTGC AAATATATGT ATAGGTCGAC CAGTGTGCT TACTAGTTTG
6651 AACGGAAAGC AAGAGGTAAG AGTCTTTTTC ATTTCTTAG TTTAGAAATA
6701 CAAACTGAAC ATTGCAAAATC CAAGAATCTA AACTCTGAAA TGCTTTTGAG
6751 TGCCATGGTA GTCAAAAGGAA ATGCTCATTG GAACATTTTG GATTTTCAGT
6801 TTGGGATGCT TAGCCAGTAA ACATAAGGCA AATATTCCAA AATGGAAAAT
6851 TCAAAACGCT CCTGGTCCCA AACATTTTGG ATAAGGGATA CTCAACCTGT
6901 GTTTGAGATG TTTCTGATTT TAATTTTCAA CACAAGCAGG AATAAATGAA
6951 AAACGTGATT TTA AAAGACA TTAACATGTA TATTAACCT GTTCCTTTGC

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FIGURE 3B

7001	TGTCTATGAC	TCTGCTGGGC	ATAGTAGCCC	CTAAAATGTT	ATGTAGAGAG
7051	AAGTGTGGCC	TCCGGCGATA	GTGACAGTAT	TTCTCCCTGT	CAGTTAGTTA
7101	TATTTCTTTA	TAAAAATATT	ATTTTGGGGG	TAAGAAGGTC	ACCTGTTCTG
7151	TATATAAATA	TTTTACTATT	CTCCCTTGTT	TCAGCTGTTT	CTCCTTGCTG
7201	TCATTTTTCA	TACCTGAGAT	TCTAAGCCTG	GAACCTTTCC	TGGATCATTT
7251	TTGGCAGCTT	GGCTTTCTTT	TCTGCTACCA	GCCCCTTATC	TTTCATGGCT
7301	TCCTTTGATG	CTTCTCTGAT	TTGCTGGGGA	TCCTTTGGAA	ATACTTTGAA
7351	ATTTTTTGTC	TGCTGATGGC	ACCCCTCCTA	TTCTTTTCAT	TTTTCTGGCT
7401	TATGCTTTAA	AGGTCCTTTA	CTGTGTCTTT	TAGAAGAGAG	GACTATAAAT
7451	GTGTGAGCTT	AAGCTAGAAA	TTTTCGCTCC	TCCCCTCTAA	CATTTAAATC
7501	TGATAAGACC	CAGGTCTCGA	CAAAGCTCTT	GTTCTGTGTC	CCTCACTATT
7551	TCCTGGATGT	AGTTTAATTT	CCAGGCTGGA	TTACTTTACA	AGTTATTTTG
7601	CCTTAATATT	TTTGTCATTT	TCTCATTATC	ACCTGTTAAT	GCCTTTATCT
7651	TTTTTCATAT	ATTTTTTCATA	TCTTCTACCG	TCTTCACTGT	GGGATCATTC
7701	TTGATCTTTA	GAAAAAGATG	TAATATTTAT	TAAAAAGTTT	ATTTTTTCATG
7751	AGCCCATGTA	GTATTTAAAT	TTTTTAAAAA	ATGCAATTTA	TCTTATTGCA
7801	ATTGGTATCA	GATTGTAAC	CTTTTGGGT	AAAGACTGTA	TTTTGCATAT
7851	CTTAAGTGCT	TGACTGTGCT	TAGCATTCTA	CCTTATAAAT	TGATGGTATT
7901	CTATGAATAT	TTATTTTCTA	ACATTTTAT	TTCCCTGTGC	TGGCAGGTGT
7951	ATACAGCCTG	GCCTATGGCA	GGATTTCTCT	GAGGCAAGGT	CGGCCTGAGT
8001	GAAATGGCAC	AGAAAAATGT	GGGTGTGAGG	CCTGCTGATG	CCATCCAGGT
8051	CCAGCCTCTT	GTGGGTGCTG	TGCTACAGGC	TGAGGAAATG	GATGTGGCAC
8101	TGAGGTTTGG	CTCTTTTCTT	TGGTGACTAT	CTGGATCAAA	GCTGCCAGT
8151	AGAAATATAA	GAGTCACAAA	TGTAAACCAC	ATATGTAATT	TTGCATTTTC
8201	TTGTAAACATT	TTAAAAAGTA	GAGAGAAACA	GGTACAATGA	ATTACAATAG
8251	TATGTTTTAT	TTAACAGTA	TATATAAAAA	TGTATTTTAA	CATGTAATTA
8301	TAAAAAATTA	CCAATAAGGG	CTGGGCGCGG	TGGCTTATGC	CTGTAATCTC
8351	AGCACTTTGG	GAGGCCGAGG	TGAGTGGATT	ACTTGAGCTC	AGGAGTTCAA
8401	GACCAACCTG	AGCAACATGG	CAAAACCCCTG	TCTCTACAAA	AAATACAAAA
8451	AAGAAAATTT	CTGGGCATGG	TGGTGTGTAC	CTGTAGTCCC	AACATTTTGG
8501	GAGGCTGAGA	CAGGAGGATT	GCTTGAGCCT	GGGAGGTGGA	GATTGCAGTG
8551	AGCTGGGATC	GCGCCACTGC	ACTCCAGCCT	GGGTGACAGA	GTGAGACTGT
8601	GTCTCAAAGA	AAAAAAAAG	TTACCAATAA	GATATTTTGC	ATCCCTTTTTT
8651	TCAAGCTAAG	TCTTCAAAAT	CAATGTGTAT	GTTACACTTG	TAGCACATCA
8701	CAGTTTTGGAC	TGCCCCATT	TTAAACATTT	GATAGCTACA	TGTGCTGAGT
8751	GGCTAGTGGC	CACTTGTGTT	ATATTAGACA	ACCCAAGCTA	AATGAGTGCT
8801	ATATAATTTA	TAGACTAAGG	ACTTTGATTT	TCCATGATTA	GAGTGTGCC
8851	TGACATTTTA	GGTGAGAGTA	ATTTTCATTG	ATGCATATTT	AGCAGTGTTT
8901	TTACCTTTGA	CTTGCACTGT	AATCAGGGCT	TCTTATTTTA	CAGTTGTAAA
8951	GAAAAAGAGTA	GATTACTGTG	AGTCAAACAG	AAACAAGTTT	TAATTAAGAC
9001	TATGCAAGCA	AAGAACCTGA	TTGTATATTT	TAACCTGTGT	ATTATTCGAT
9051	TTAGTAAAAC	AAACGGTCAT	TACTATCAGA	TTTTAAAAATA	ATCCCTCAC
9101	ACAGGGTAAT	TGTTTGAATC	TACCTATCAA	GGTAGTTAAG	GTATATCATC
9151	CATCCTCCTG	GATTTCTAT	TATCTAATAG	GATATCGACT	TGGTTTGCAT
9201	ATACAAGTCT	TCTCAAAAAT	CATTTACAAA	AAGCATCTTT	TTATACTTTA
9251	ATGTCACCTT	AGTAATAGTT	TGGGGGATGT	GTTTACATTA	TATGTGAGAA
9301	TTACAAACCA	TTTTCTAGTC	ATCAGCTTGA	TTTTAATATG	TTCTCTTTTG
9351	CTACTATTGT	AGATTTTAGA	CTTGAGTTT	GGCATATTTT	TTCTTTTATA
9401	ACAGGAGAAT	GTTTTAGAG	CTTATAGTAA	CAGTTTAATG	AACAATAAAA
9451	AGCAGAAGGG	ACAGGAGACA	ATATGTTGAG	TACCGGCTGT	ATACAGAAGC
9501	TTTTTATATA	TTGCATGTAT	GTATACACAC	ACACACATTT	ACCCCTTTTCT
9551	TTTTAAACAG	ATGAAATAGT	CTGAGGAGAA	CTTGCCTAAT	ATTTTATGAG
9601	GTAGTTAATA	GTAAGTTTGA	GATTAAACTG	GATTATTCCT	CAGACTATGT
9651	CTTAAAATGG	TGCTACAGGT	AGCAGTAATT	CGTTGACTGG	AATTAGCATT
9701	TATGATGACC	TACAAACTAG	TCAGACCTCT	TGAGCGCACA	GCAGTCTTAG
9751	GTGAGTAATG	ATTGCTTATT	AGAGAGGACT	GGATATGTTT	TAAATGAAAG
9801	CTCAGGTTTT	AAAAATTTGT	TTTTAAAAAT	CTTATGTTTT	AAAAAATCTT
9851	ATGTTTTAAAA	AATCTTAAAG	ATAGACAAGA	AAGTTAACTT	CCAGTTGGGA
9901	AAATCAGTCA	TTTTAGTCTG	CTTAAATCCT	TCAGTTGCAA	CTGTAAGATT
9951	TTATTATTAA	TAGTAATGTT	AGAGCTCCTT	CTAGTGGAAA	TTATTTTATG
10001	TGCAACTATT	ATTTTTTTTAA	AAGCAAAATT	GGTTTGATAT	TTTTACTGTT
10051	TTTACATGTA	TTTGTAAATA	CCTTCTATT	AGAGTTTAAAC	AAAAGCAATT
10101	TAAGTATAAC	TTGGTTTAGA	GTTCCATAAA	CAAAAGTAAA	TGTAAGCATT
10151	TAAGGAGATA	CATGCAATTT	TCTCATTAGT	TTATACATAT	ATTTGATTCA
10201	TGAAATTTCC	CCCTCATTTG	ATTTCTCTCT	TGTTCTCTCT	TTTATATGAA
10251	TATATAGTTG	ATTCTCATTA	TTTGTGGTTA	GTTATGTTCT	ATTTAAAGTTG
10301	CCTTGAACAC	ATTTGACAAA	TACTGAACCA	TTTCTCCTAG	AGGGAAATAT
10351	GTATGTGTGT	GTATATACAT	ACATGCAACA	CACACAATAT	ATGTAGCGTA
10401	TGTATATATA	TAATATATAT	ACATACACAC	ACATTTTACA	TAGATTATAA
10451	CCTTAAACT	CCAAAGTAAT	TCTTTCTGGT	AGATTTTATT	TTCTTTATTT

FIGURE 3C

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10501 TACAAAACAG AAGAGGAGAT TTAGAAGTGT TAGAAATGTT AAGGGACTTG  
10551 CCTGAGGTGC TAGTGCTGGG ATTCACACTC CCTCCAACGT ACCCCAGGCC  
10601 TGGAGCTTCT TCACTACACT GCTGTGTCCC CTATCACTTC CATTCTCTGG  
10651 TCATCTCTGA ATGAAAGCTG AAACAAGGCA GAGTGTCAAC TCATCCTACA  
10701 TGGTAACATG GGTGTTGGGT CACCCAAATT TTTTGCTGCT CTTCATGTG  
10751 ACTAATGAGC ACAAATGCTC TGTGAGTATT GATTTTGGGG TACACATAAG  
10801 TTTTGGGAG TTGGTAAATT TGCAAATACA GCATCCACAG GTATTGAGGA  
10851 TTGACTATAT TGTATTATTA CTGATAAAAG TGATTGGAAG NNNNNNNNNN  
10901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
10951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
11001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
11051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
11101 NNNNNNNNNN NNNNNNNNCA CCGCACTCCA GCCTGGGTGA CAGAGCGAGA  
11151 CCTCATCTCA AAAAAAAGAA AAAGTGATTG GAGAACAAGG TATTTTTTGA  
11201 CCAGATGGGC ACACAGGCAC ATGCCACCAC GTCTGGCTAG TTTTCTTTTG  
11251 TATTTTGTG AGAGATGAAT TTTTGCCATG TTGCCCAGGC TGGTCTTGAA  
11301 CTCCTGAGCT CAAGCGGTCC ACCCACCTCA GCCTCCCAA GTGCTGGGAT  
11351 TACAGGCATG AGCCACCATG CTCAGTTCCA ATCACTTACA CTTCCTCTTG  
11401 AGCTAACTG TCCCCCTCC ACTGGTCACT GACAGAACTA GACAGCTGTT  
11451 TGCTCCCTC CTGATATGG GCTGCTTATG CACAAGAGGA GGAGGAAAAA  
11501 TGCTCATGTT CTAAGAACTC CTCAAGAGCA GATTTCTTTA TAAATGTATG  
11551 ATATTTAGGT GTGTTCACTT CCTGCACTTA AGCAACTCTC TGGGGTGACA  
11601 CAGTTATCAT TAGGAAGGAG GGGATCTCAT TTTTCTTGG TCATGCCCTT  
11651 TCTCCAGAAA AAAACCTTCA TTGTAACCAT TACTCCTCTT TTTCTACTT  
11701 TCGCTTTTTC AAGTAACATA CTGTATAGGA CTTAATTTTC TTGAAGAAAT  
11751 AATTTGTAAG TTATACTGAG AGAGTGAAGT AAGTTATTAA TTAGAGTCTT  
11801 TCTCCAAGCT AGGCAACTTT ATAAAGGGAA TTATTAGTTT AGGTCAGCAT  
11851 TTTAAAAATG TTTTGGCTA TGACAATAAA AAATGGATTT TTCATCAGAT  
11901 TCTTTGTATA TACACATCCA TAGATAATAG TGCTCATATG TGTGCATGTG  
11951 TGTATGTATG TTGTAGAAGT TAATGTTTTA CAAAGCAGTA TTTACCTTTT  
12001 CTATATTGAG TGTACCCTGC ATTTCTTATT CTATTAACAA AGTGCTGAAT  
12051 GAGGCTGACT GAAATGATTT CATTACCCTT GTGTTTTGAA GAACATTGAT  
12101 TTAGGCCACT AAGGCACCAG ATTCCAAATG ATATTTTCAT GGCTATATGT  
12151 TTCTGAAAAA TGCCCATCAT TTCAAAATTG TATACATTAT TTATTTTAAG  
12201 GTTGCAAGTG GATTATCTT TTGACTAAGT CTATATTATA ACCATATACA  
12251 TGTAATTTTA CATCACAGTT TAGTTTCTGG TGTACCTAAT GCTGATTTCT  
12301 GTTCCCTTCT TATCCTTTTA CAGTGACAAA GATATGGAAA TTAATGAAGA  
12351 AGAAGTACTT GGTGTATCC TGAGAAAAC AGGTGAGACA AATATTTTAA  
12401 ATTGTTTTCT TAAGTTTTAA GCTGCAAGGC ATCAGCAAT AAAGTGTCTT  
12451 TGAGGGCTTA TATATGCATA GTAGTTTTCT TCAAAATAGC TTTGAGAATA  
12501 TTCCCTCAA TGAATGAATA TACTTTTAAG ATAGGGATGT GCTACTTTTC  
12551 CTGGTTAATT GGCAGTTGAG CAGTGGAAG AATATATGAC TTGCTGTGG  
12601 AAAGAGTCAG TGTAGAATT GAGACTTTTA ACCTTTGCAT TCTTGCCCTT  
12651 TCCAGTGACA GATGCTATCT TGGAGTGTG GTTTGGGTGT GCCATTTTCA  
12701 TTTAGTTTAT TATTGAATAT GGAATGCCG GCTATTTGTT GATGTGATTG  
12751 ATAGAATCTG AGATCTACTG AGTGTGGAGG ATTTAGAGA ATCATTCTCT  
12801 TCTGTCTCCA GATGGTGTTA TAGGGGAATA TTAGTCTCT AATTTTTTAT  
12851 GACAATTATT TTATTAAATC TCTGTCTTTG ATTTAGTCTT TTCAGATAAT  
12901 AGATGAAATA TATTGCTATT TAAACATTAA ACTGGTAAAA AAAATTATGC  
12951 TAACATGTAT ATTTAATATA CTGTTTTCTA GATGGCAAGA TTGTTTTACC  
13001 AGGCAACTTT CTGTATTGTA CATTCTATGG ACGACCGTAC AAGCTGCAAG  
13051 TATTGCGAGT GAAAGGGGCA GATGGCATGA TATTGGGAGG GCCTCAGAGT  
13101 GACTCTGACA CTGATGCCCA AAGAATGGCC TTTGAACAGT CCAGCATGGA  
13151 AACCAGTAGC CTGGAGTTAT CCTTACAGCT AAGCCAGTTA GATCTGGAGG  
13201 ATACCCAGAT CCCAACATCA AGAAGTACTC CTTATAAACC AATTGATGAC  
13251 AGAATTACAA ATAAAGCCAG TGATGTTTTG CTGGATGTTA CACAGAGCCC  
13301 TGGAGATGGC AGTGGACTTA TGCTAGAGGA AGTCACAGGT CTTAAATGTA  
13351 ATTTTGAATC TGCCAGAGAA GGAAATGAGC AACTTACTGA AGAAGAGAGA  
13401 CTGCTAAAGT TCAGCATAGG AGCAAAGTGC AATACTGATA CTTTTTATTT  
13451 TATTTCTTCA ACAACAAGAG TCAATTTTAC AGAGATTGAT AAAAATTCAA  
13501 AAGAGCAAGA CAACCAATTC AAAGTAACTT ATGACATGAT AGGAGGATTA  
13551 AGTAGCCAGC TGAAGCAAT TAGAGAAATA ATTGAATTGC CCCCACAAAC  
13601 GCCTGAGCTT TTCAAGAGTT ATGGTATGAT GTCTTCAGTT TATTGCACCC  
13651 AAAAATGTTA AATTCAAATT AAAAGACAGT TGACACTTAT GTAATGATTG  
13701 CTCATCTCTT TTTCTGTTT TTATTTTCTG AGTAGTAGGT ATGGTAGAAG  
13751 ATTTGAGTTG CTTTGGGAGA TGCCAGTTAA ATGGGCCATT TGCTATGCTT  
13801 TGGTATTTTT AGGTTGTAAT GTGAATTAGT GACAGCCTTG TCTCTCTAA  
13851 TAGCATATTT CCACAATTAC CTGTATTGGA TCTAGAATAA GTATCTGTG  
13901 ATGCTGGGTC ATCTGTAATG ACTGAAGGGA TAAACCATTC AAATACATTA  
13951 GATAAACTT CTTAGGAAAT GTAACGTGTG ACCCATCTCT TTGCACTGAA

FIGURE 3D

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14001	GCAGGTAATT	ACGGGAATGG	CTTGACTCAG	GAAACTCAGG	GCTTCTGCTG
14051	CATTGTATT	GCCAAGATCC	TTTGCAATATA	TTTGCTGTGT	CTGATCTCTC
14101	TGCTTTTTTC	CTTTCTCATA	AATCTTATAT	ATACATACAT	GTATGTATAT
14151	ATATGTATGT	GTAAAAATGAA	CCCTTAGATT	GGCATTITTC	TCATACTTAT
14201	GTACCTTTTA	TACTAGCAAA	CGTATGTACT	CTTCAAGATG	GTTAGTTGGA
14251	AAAAAACTGG	GATTGGTGGC	TTGTCTACCT	GTGTGTCTG	TGCTTGGTTT
14301	TTCGATCATT	GATCTGTGTT	GTGTGGGATG	GGGCGTTGCA	ACAATGTGGG
14351	TGTCCAGTTT	TTTTTTTTTT	TAACCAACAT	GCTTCTCTG	TTCTGTGGTC
14401	TACAGAGAGA	GAAAGTCATT	GCTGGGTATC	AGTGTITGGG	CTAGTTAGTA
14451	CATCTTTCTG	GAGGGGGAGA	AAAACTCTT	GACTCTTTT	GTGACGCAAG
14501	GTAAGTTAA	ATTTTATAAC	TCATGTTTGA	ACTTGTATGA	CAACATTTAT
14551	AAGAAACCTA	GTAATGGTGA	ATCTAGTGTT	TTCTACTTTT	TCTTCCAGGA
14601	ATTCTTGCCC	CTAGAGGAGT	GTTACTTTAT	GGTCTCCAG	GTACTGGAAA
14651	AACAATGATC	GCCAGGGCTG	TTGCTAATGA	AGTTGGAGCC	TATGTTTCTG
14701	TAATTAATGG	TCCTGAAATT	ATAAGCAAGT	AAGTACATGA	TTTAATAGAG
14751	TAAACTGTCT	ATTAATATATA	TTTCTAAAAAT	GTGGTTTTTA	AAAATGATTG
14801	TGTAGTATTC	TGTGTGATAT	TTTGTACACT	GAAATATTTT	GCTTCTTAAT
14851	AAAAATTGTT	TGGAAAATTC	TTTTTGAAAG	TAATTTTAAG	TATTATAGAA
14901	ATATTGAAAA	TTTAGGTTAG	CTTTTATAGA	CAAAGCTTTA	AAAACAATAA
14951	GAAATGGTCT	TAAATGTAT	TTTATTTGTT	ACAGATTCTA	TGGTGAGACT
15001	GAAGCAAAGT	TACGTCAGAT	ATTTGCTGAA	GCCACTCTAC	GGTACTCTTT
15051	ATTTTTAAAT	GTTTTTGAAT	TAATAATCAA	GGCTGTATTA	GTCAAAGTGA
15101	GATACTAGCA	CCTTATACAA	AGCATAAACA	GTAGTACAAA	AATTATAGTG
15151	ATAGTGGTAG	AAGTAGATTA	TAGATCTAAT	GAAATCTAT	TTCTATCTAA
15201	TCTTTTAAAG	TTTGATAAAT	ATTATTAAT	TACATAAAGT	AGAAGAATTA
15251	AGACATAGTG	TTTGATAAGT	CATGTGAOCT	TGTTTGAGCA	TAGAAATCCA
15301	TGACTTTCTT	TAGGTGCTTA	GGTGTITCTA	ATATGCTTAG	CTTTTCTAGT
15351	AGACTGTATT	ATTGTATGTA	GCTCTTTATA	CTAGAACTTT	GTTATGTTAT
15401	ACTTTGCTTC	AAAGGGACAA	ATCTTTTGCC	CATTAAATAA	TGACTCTGGC
15451	TGGGTGTGTT	GGCTCATGCC	TGTAATACCA	TCACTTTGGG	AGGCCAAGGC
15501	AGGAGGATTA	CTTGACCCCA	GGAGTTTGAG	ACCAGCCTGG	GCAACATAGT
15551	GGGACCCCTGT	CTGTTTAAAA	ATAAAAAATA	TTGGCTGGGT	GCGGTGGCTC
15601	ACGCCCTGTAA	TCCCAGCACT	TTGGGAGACC	GAGGCAGGCA	GATCACCTGA
15651	GGTCAGGAGT	TTGAGACCAG	CCTGGCTAAC	ATAGTGAAAC	CCCGTCTCTA
15701	CTAAAAATAC	AAAAATTAGC	CAGGTGTGGT	GGCAAGTGCT	TGTAATCCCA
15751	GCTACTCGGG	AGGCTGAGGC	AAGAGAATCT	CTTGAACCCA	GGAGGTGGAG
15801	GTTGCACTCA	GTTGAGATCG	TGCCATTGCA	CTCCAGCATG	GGGGACAAGA
15851	GCGAGACTTT	GTCTCGAAAA	AATAAAAAATA	AAAATAATTA	GTTGGGCATG
15901	GTAGCAGATG	CCTGTAGTCC	CACCTACTAA	GGAAGCTGAG	GCAGGAGGAT
15951	CACTGAGCTG	GGAGATCAAG	GCTGTAGTGA	GCCATGATTT	CACTGCTGCA
16001	CTCTAGCCTG	GGCAACACAC	ACCCCGTCTC	AAAAACAAAC	AAACAAGCAA
16051	AATCAAAACA	GTGGTAGAGA	CATAGCCATA	TTATGAGTGA	CGTTACGTTT
16101	GACCAAGTTA	TAGACCAATA	TCCTAATACT	CATTACAGTG	TAACATTGAA
16151	ATCTAAATTC	CCTGAGCTCA	AGTGATCCTC	CCCTGTAGC	CTCCCAAGTA
16201	GCTGGAACATA	TAGGTGAGCA	CCACCATGCC	CAGCTAATTT	TTGTATTTTT
16251	TTTTCTAGCA	ACAGGGTCTT	GCTATGTTGG	CCAGGCTGGT	CTTGAACCTCC
16301	TGGGCTCAAG	CCATTCTCCT	GCCTCAGCCT	CCCAAAATGC	TGGCTGTCTT
16351	GGTGTITTAAT	ACATAACTA	CTGCTCTTGA	ATCAGAAAAAC	CCACCATTTT
16401	TGAAGTTTAT	TTTTTTCCCG	CAATGATAGT	AGATGAAGTA	AGCAGTTTGT
16451	AGTCTCTAGTA	CTGTACTGAA	AATTTGAAAA	CTAGTGGTAC	ACCTTATTTG
16501	TTAGTATGCT	TTTGTITGTTG	TTGTGTTTAT	GGCAGTTGAG	ATTTCTTCT
16551	GTGAGAGAAT	TCACATCTGT	TTATGGGAGA	ATTGATCATC	TTGCAAGTTT
16601	TTATTTTAAT	GGTTTAAAAA	TAACAGGGCA	TTTCTAGTTT	ATGTCCTTTG
16651	GTTTCAAACC	TGCTCCAAGG	GATAGTATCT	CTGGCCTCAG	CTTCTGAATT
16701	GATCCAGTCA	TAACAACCTA	ATGGGCATTA	CTGGGGAGAG	TTCTTAAGAG
16751	ACTCTTATCT	TTTAAGCAGC	ATACTTACT	CAATTACCCA	GCCTTTTAAT
16801	GGAGGGCAGA	TAGAATAGAA	TATGAAGTTA	GTGAATTAGT	ATTTTGGGCT
16851	AGAATGAATC	TAAGGATTTT	TAGCTTAACA	TTATAATATC	TTTATAATAT
16901	TAAGTGAATT	CTAAATTTGA	TATGTTGCAT	TTCAAGTAAA	AAAATTAATA
16951	CTAAGTAAAA	CTTAAATCA	AATATAGATG	AGAGATTICA	TTTTACTTGT
17001	TTGTTTTTAG	ACACCCATCA	ATTATTTTTA	TTGATGAGCT	GGATGCACTT
17051	TGTCCGAAAA	GAGAGGGGGC	CCAGAATGAA	GTGGAAAAAA	GAGTTGTGGC
17101	TTCACTCTTA	ACACTGATGG	ATGGCATTGG	TTCAAGTAA	ATAGCACTAG
17151	TATTGATTCT	GTGTAGGGTT	AATTCTTAAT	ACTTATGTGT	AGTGGTAAAA
17201	ACTATTGAAT	GTGTCAGAGT	CTTTGGATAT	TTTAGGATAA	AGGAAAAATA
17251	TTAGCCATAG	CAACTAGGGG	AAAGATCTGT	AAAATAATTT	GCTTTAGTAG
17301	ATTACTTAGT	AACTGCTAGG	ACAACATCAT	AACCTGGCAG	GTTTTTCTA
17351	GCATATAAAA	TACTATACCA	TGATGGATTT	ATTTTGTGAT	AAATGCTGTT
17401	AGCTTAAAAA	CTTGAAGCAA	AGATCAGTAA	GGAAGATTTA	GCAGTTAAAT
17451	TTTAGGGGAT	TTTATTTTAT	TTTTATTTAT	TATTATTGTT	TTTGAGATTG

FIGURE 3E



17501 AGTCTTGCCC TGTCAATCCAG GCTGGAGTGC AGTGGCGCAG TCTCAGCTAA  
17551 CTGCAACCTC CACCTTTCCAG GTTCAAGCGA TTCTCTGCGC TCAGCCTCCT  
17601 GAGTAGCTGG GACTACAGGC ATGCACCATC ACACCTGGCT AATTTTTTTT  
17651 TAAATCTTCT TAGTAGAGAT GGGGTTTCAC CATGTTGGCC AGGCTGTCT  
17701 CGAACTCCTT ACCTTGTCTAT CTACCCGCT TGGCCTTCCA AAGTGTCTGG  
17751 ATTATAGGTG TGAGCCGCTA CATCTGGCT TAGGGGTTTT TATTAAGAAA  
17801 TGTCAATGAG AAGTCTTATT ACCCATGTAC AAATGGACTC TTTCAAGGCT  
17851 TTGTACTAGG GAAATGAAAG AAAGTGAGAA TAATGCGAAA TGTTTTGTAT  
17901 AACATTTAAA AAAAAAATTA TTCATATTAC CAGATTCTCT CATAGGGGAT  
17951 ATGTTCTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTGGAG ACAGAGTTTC  
18001 GCTCTTGTGG CCCAGGCTGG AGTGCAATGG CACAATCTCG GCTCACCGCA  
18051 ACCTCTGCGT CCAGCGTTCA AGCAATTCTC CTGCTCAGC CTCCCGAGTA  
18101 GCTGGGATTA CAGGCATGTA CCACCACGCC TGGCTGATTT TGTATTTTAA  
18151 GTAGAGACGG GGTTCCTCCA TGTTCAGGCT GGTCCTGAGC TCCTGACCTC  
18201 AGGTGATCCG CCCGCTCGG CCTCCCAAAG TGCTGGGATT ACAGGCGTGA  
18251 GCCACCGCGC CACGCGGGA TATGTTCTTT TATTAATAAA AACTATATGC  
18301 TAATTATGGA AGGAACATTC ATAGGACTAA TAAGAGAATA GGCATGAACA  
18351 AAAATTTTCT AAGACTCCTG ACATCCATTA ATTAGAAAAA TACACTTTTC  
18401 ATGCTGGATT ATGAATAAGT AAAGTTTTTA GAATCATAAT ATGTTAGAAC  
18451 CACAATAAAT TTTAGAAATT ATGTAGTATC AAGCCTCTTT TGCACATTAA  
18501 AAAGCTGGTC ATTTAGAATT TTTTTTTTTT TATACTTTAA GTTTTAGGGT  
18551 ACATGTGCAC AATGTGCAGG TTAGTTACAT ATGTATACAT GTGCCATGAT  
18601 GGTGTGCTGC ACCCATTAAC TCGTCGTTTA GCATTAGTTA TATCTCCTAA  
18651 TGCTATCCCT CGCCCTCCCT CCAACTCCAC AACAGGCCCC AGAGTGTGAT  
18701 GGTCCCTTTC GTGTCTCAT TGTTCAAATC CCATCTATGA  
18751 GTGAGAACAT GCAGTGTGTTG GTTTTTTGTC CTTGCGATAG TTTGCTGAGA  
18801 ATGATGATTT CCAGTTTCAT CCATGTCCCT GTAAAGGACA TGAACATC  
18851 ATTTTTTATG GCTGCATACT ATTCCAGGGT GTACATGTGC CCAATTTTCT  
18901 TAATCCAGTC TGTCAATCCG GGACATTTGG GTTGGTTCCA AGTCTCTGCT  
18951 ATCGTGAATA GTGCCGCAAT AAACATACGT GTGCATGTGT CTCTATACCA  
19001 GCATGATCTA TAGTCCTTTG AGTATATACA CAGTAATGCG ATGGCTGGGT  
19051 CAACTGGTAC TTCTACGTCT AGACTCCTGA GGAATCGCCA CACTGACTTC  
19101 CACAATGGTT GAAGTAGTCT ACACGTCCAC CAACAGTGTA AAAGCGCTCC  
19151 TATCTTCCCA CACTCTCTCT AGCACCTGTT GTCTCCTGAC TTTCTAATGA  
19201 TTGCCATTCT AACTGGTGTG AGATGGTATC TCATTGTGGT TTTGATTTGC  
19251 ATTTCTCTGA TGGCCAGTGA TGATGAGCAT TTTTTCATGT GTCTTTTGAC  
19301 TGCATAAATG TCTTCTCTG AGAAGTGTCT GTTCATATCC TTTGCCCACT  
19351 TTTTGATGGG GTTGTGTTGT TTTTCTTGT AAATTTGTTT GAGTTCATTG  
19401 TAGATTCTGG ATATTAGCCC TTTGTACAGT GAGTAGGTTG CGAAAAATTT  
19451 CTCCATTCT GTAGCTTCCC TGTTCACCTC GATGGTAGTT TCTTTTGCTG  
19501 TGCAGAAGCT CCTTAGTTTA ATTAGATCCC ATTTGTCAAT TTTGGCTTTT  
19551 GTTGCCATTG CTTTGTGTTT TTTAGACATG AAGTCTTAC CCATGCCAT  
19601 GTCCTGAATG GTAATGCCTA GGTTTTCTTC TAGGGTTTTT ATGGTTTTAG  
19651 GTCTAACGTT TAAGTCTTTA ATCCATCTTG AATTAATTTT TGTATAAGGT  
19701 GTAAGGAAGG GATCCAGTTT CAGCTTTCTA CATATGGCTA GCCAGTTTTC  
19751 CCAGCACCAT TTATTAAATA GGAATCCTT TCCCATTTGC TTGTTTTTGT  
19801 CAGGTTTGTC CAAAGATCAG ATAGTTGTAG ATATGTGGCA TTATTCTGA  
19851 GGGCTCTGTT CTGTTCATT TCTGTGTTGG TACCAAGTACC  
19901 ATGCTGTTTG GTTACTGTAG CCTGTAGTA TAGTTTGAAG TCAGGTAGCA  
19951 TGATGCCCTC AGCTTTGTTT TTTTGGCTTA GGATTGACTT GGTGATGCGG  
20001 GCTCCTTTTT TGGTTCCATA TGAACTTTAA AGTCGTTTTT TCCAATTTCTG  
20051 TGAAGAAAGT CATTTGGTAG TTGATGGGGA TGGCATTGAA TCTATAAATT  
20101 ACCTTGGGCA GTGTGGCCAT TTTACAGATA TTGATTCTTC CTACCCATGA  
20151 GCATGGAATG TTCTTCCATT TCTTTGTATC CTCTTTTATT TCATTGAGCA  
20201 GTAGTTTGTA GTTCTCCTTG AAGAGGTCCCT TCACGTCCCT TGTAAGTTGG  
20251 ATTCTAGGT ATTTTATTCT CTTTGAAGCA ATTTGGAATG GGAGTTCACT  
20301 CATGATTTGG CTCTCTGTTT GTCTGTTATC GGTGTATAAG AATGCTTTGT  
20351 ATTTTGTGTA ATTTGATTTT TATCCTGGGA CTTTGCTGAA GTTGCTTATC  
20401 AGCTTAAGGA AGTTTTGGGC TGAGACAGTG GGGTTTTCTA GATATACAAT  
20451 CATGTTGTCT GCAACAGGGG ACAATTTGAC TTCTCTTTT CCTAAGTGAA  
20501 TAGCCCTTAT TTCTTCTCC TGCTGATTG CCCTGGCCAG AACTTCCAAC  
20551 ACTATGTTGA ATAGGAGTGT TGAGAGAGGG CATCCCTGTC TTGTGCCAGT  
20601 TTTCAAAGGG AATGCTTCCA GTTTTTGCTT ATTCAGTATG ATACTGGCTG  
20651 TGGGTTTGTC ATAGATAGCT CTTATTATTT TGAGATATGT CCCATCAATA  
20701 CCTAATTTAT TGAGAGTTTT TAGCATGAAG GTTGTGTAAT TTTGTCAAAG  
20751 GCCTTTTCTG CATCTATTGA GATAATCATG TGGTTTTTGT CTTTGGTTCT  
20801 GTTTATATGC TGGATTACAT TTATTGATTT GCATATATTG AACCAGCCTT  
20851 GCATCCAGG GATGAAGCCC GCTTGATCAT GGTGGATAAG CTTTTTGATG  
20901 TGCTGCTGGA TTCCGTTTGC CAGTATTTTA TTGAGGATTT TTGCATCAAT  
20951 GTTCATCAAG GAGATTGGTC TAAAATTTCT TTTTTTGGTT GTGTCTCTGC

FIGURE 3F



21001 CCGGCTTTGG TATCAGGATG ATGCTGGGCT CATAAAATGA GTTAGGGAGG  
21051 ATTCCTCTCT TTTCTATTGA TTGGAATAGT TTCAGAAGGA ACGGTACCAG  
21101 TTCTCTCTTG TACCTCTGGT AGAATTCGGC TGTGAATCCA TGTGGTCTG  
21151 GACTCTTTT GGTGGTAAG CTATTGATTA TTGCCACAAT TTCAGATCCT  
21201 GTTATTGGTC TATTACAGAGA TTCAACTTCT TCCTGGTTTA GTCTTGGGAG  
21251 GGTGTATGTG TCGAGGAATG TATCCATTTC TTCTAGATT TCTAGTTTAT  
21301 TTGCGTAGAG GTGTTTGTAG TATTCTCTGA TGGTAGTTTG TATTCTGTG  
21351 GGATCGGTGC TGATATCCCC TTTATCATTT TTTATTGGGT CTATTTGATT  
21401 CTCTCTCTCT TTTTCTTTA TTAGTCTTGC TAGCGGTCTA TCAATTTTGT  
21451 TCATCTCTCC AAAAAACCAG CTCCTGGGTT CATTAATGTT TTGAAGGGT  
21501 TTTTATGTCT TCTATTTCCT TCAGTCTGCT TCTGATCTTA GTTATTCTT  
21551 GCTTCTGCT AGCTTTTGAA TGTGTTTGT CTTGCTTTTC TAGTTCTTT  
21601 AATTGTGTGT TTAGGGTGTG AATTTTGGAT CTTTCTGCT TTCTCTGTG  
21651 GGCAATTAGT GCTATAAATT TCCCTCTACA CACTGCTTTG AATGTGTCCC  
21701 AGAGATTCTG GTATGTGTGT TCTTTGTCT CGTTGGTTTC AAAGAACATC  
21751 TTTATTCTG CTTCATTTTC GTTATGTACC CAGTAGTCAT TCAGGAGCAG  
21801 GTTGTTCAGT TTCCATGTAG TTGAGCAGTT TTGAGTGAGT TTCTTAATCC  
21851 TGAGTTGTAG TTTGATTGCA CTGTGGTCTG AGAGACAGTT TGTATAATT  
21901 TCTGTCTCTT TACATTTGCT GAGGAGAGCT TTACTTCCAA CTATGTGGTC  
21951 AATTATGGAA TAGGTGTGGT GTGGTGCTGA AAAGAATGTA TATTCTGTTG  
22001 ATCTGGGGTG GAGAGTTGTG TAGGTGTCTA TTAGGTCCAC TTGTTGCAGA  
22051 GATGAGTTCA ATTCCTGGGT ATCCTTGTGA ACTTCTGTC TTGTTGATCT  
22101 GTCTAATGTT GACAGTGGGG TGTGAAAGTC TCCCATTATT ATTGTGTGGG  
22151 CGTCTAAGTC TCTTTGTAGG TCACTCAGGA CTTGCTTTAT GAATCTGGGT  
22201 GCTCCTGTTT TGGGTCATA TATATTTAGG ATAGTTAGCT CTTGTTGTG  
22251 AATTGATCCC TTTACCATTA TGTAATGGCC TTCTTTGTCT CTTTGTATCT  
22301 TTGTTGGTTT AAAGTCTGTT TTATCAGAGA CTAGGATTGC AAGCCCTGCC  
22351 TTTTCTTGT TCCCATTTGC TTGGTAGATC TCCCTCCATC CTTTATTTT  
22401 GAGCCTATGT GTGTCTCTGC ACGTGAGATG GGTTTCTGA ATACAGCACA  
22451 CTGATGGGTC TTGACTCTTT ATCCAGTTTG CCAGTCTGTG TCTTTTAATT  
22501 GGAGCATTTA GTCCATTTAC ATTTAAAGTT AATATCGTTA TGTGTGAATT  
22551 TGATCCTGTC ATTATGATGT TAGCTGGTTA TTTTGCTCAT TAGTTGATGC  
22601 AGTTTCTTCC TAGTCTCAAT GGTCCTTACA TTTTGGCATG ATTTTGCAAG  
22651 AGCTGGTACC GGTGTCTCT TTCCATGTTT AGTGTTCCT TCAGGAGCTC  
22701 TTTTAGGGCA GCGCTGGTGG TGACAAAATC TCTCAGCATT TGCTGTCTG  
22751 TAAAGTATTT TATTTCTCT TCACCTATGA AGCTTAGTTT GGCTGGATAT  
22801 GAAATCTCTG GTTGAATAAT CTTTCTTTA AGAATGTTGA ATATTGGCCC  
22851 CCACTCTCTT CTGGCTTGTA GAGTTTCTGC CGAGAGAATC GCTGTTAGTC  
22901 TGATGGGCTT CTTTGTGGG TAACTGACCT TTCTCTCTG CTGCTCTTAA  
22951 CATTTGCTCT TCATTTAACT TTGGTGAATC TGACAATTAT GTGCTTTGGA  
23001 ATTGCTCTTC TCGAGGAGTA TCTTTGTGGC GTTCTCTGTA TTTCTGAAT  
23051 CTGAATGTTG GCCTGCCTCG CTAGATTGGG GAAGTCTCT TTGATAATAT  
23101 CCTGCAGAGT GTTTTCCAAC TTGGTTCCAT TCTCCCGTC ACTTTCAAGT  
23151 ACACCAATCA GACGTAGATT TGGTCTTTTC ACATAGTCCC ATATTCTTG  
23201 GATGCTTTGT TTGTTCTTT TTATTCTTT TTCTCTAAAC TTCCCTCTT  
23251 GCTTCATTTT ATTCAATGTA TCTTCCATCA CTGATACCCT TTCTTCCAGT  
23301 TGATCGCATC GGCTCCTGAG GCTTTTGCA TCTTCAAGTA GTTCTCGAGC  
23351 CTTGGCTTTT AGCTCCATCA GCTCCTTTAA GCACTTCTCT GTATTGGTTA  
23401 TTCTAGTTAT ACATTGCGCT AAATTTTTT CAAAGTTTTC AACCTCTTG  
23451 CCTTGGTTT GAATTTCTCT CCGTAGCTCG GAGTAGTTTG ATCGTCTGAA  
23501 GCCTTCTCT CTCAACTTGT CAAAGTCATT CTCCGTCCAG CTTTGTCTG  
23551 TTGCTGGTGA GGAATGCGT TCCTTTGGAA GAGGAGAGGC ACTCTGCTT  
23601 TTAGAGTTTC CAGTTTCTCT GCTCTGTTT TTCCCATCT TTTGGTTTT  
23651 ATCTTTGTTT GGTCTTTGAT GATGGTGATG TACAGGTGGG TTTTGGTGT  
23701 GGATGTCCTT TCTGTTTGT AGTTTTCTT CTAACAGACA GGGCCCTCAG  
23751 CTGCAGGTCT TGTGGAGTT GCTAGAGGTC CACTCCAGAC CCTGTTTGCC  
23801 TGGGTATCAA CAGCGGTGTC TGCAGAACAG TGGATTTTCC TGAACCGCA  
23851 ATGCTGCTGT CTGATCGTTC CTCTGGAAGT TTTGTCTCAG AGGAATACCC  
23901 GGCGTGTGA GGTGTAGTTC TGCCCTACT GGGGTGCTT CCCAGTTAGG  
23951 CTGCTGGGGT GTGAGGGGTC AGGGACCCAC TTGAGGAGGC AGTCTGCCCTG  
24001 TTCTCAGATC TCCAGCTGCG TGCTGGGAGA ACCACGGCTC TCTTCAAAGC  
24051 TGTACAGACG GGACATTTAA GTCTGCAGAG GTTACTGCTG TCTTTTGTG  
24101 TGTCTGTGCC CTGCCCCAG AGGTGGAGCC TACAGAGGCA GGCAGGCTTC  
24151 CTTGAGCTGT GGTGGGCTCC ACCCAGTTCA AGCTTCCGGG CTGCGGCTGC  
24201 TTTGTTTACT GAAGCAAGCC TGGGCAATGG CGGGCGCCCC TCCCCAGCC  
24251 TCACTGCCGC CTTGCAGTTT GATCTCAGAC TGCTGTGCTA GCAATCAGCG  
24301 AGACTCCGTG GCGGTAGGAC CCTCCGAGCC AGGTGCGGGA TATAATCTCC  
24351 TGGTGCACCG TTTCTAAGC CCATCGGAAA AGCGCGGTAT TAGGGTGGGA  
24401 GTGACCCGAT ATTCCAGGTG CTGTCTGTCA CCCCTTCTCT TGACCAGCAA  
24451 AGGGAACCTC CTGACCCCTT GCACCTCCCG AGTGAGGCAA TGCCCTACCC

FIGURE 3G

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24501 TGCTTCGGCT CGCACACGGT GCGCTGCACC CACTGTCTCTG CACCCACTTT  
24551 CTGGCACTCC CTAGTGAGAT GAACCTGGTA CCTCAGATGG AAATACAGAA  
24601 ATCACCTGTC TTCTGTGTTG CTCACGCTGG GAGCTGTAGA CCGGAGCTGT  
24651 TCCTGTTCGG CCATCTTGGC TCCTCCCGA ACTTTTGT TTTTACTGTC  
24701 TAGTGGCAGA AAGTAAATAT GTGAAAATAA TATAAAGGTT TGGCACTAAG  
24751 TCACTTATAT ACTAACGTGT TAGTAATTTT AAGAGTCTGT AAGAGAAGGG  
24801 TTGTACCTG GTGGAGGCTG CCTGACTAAC TGGTTCTCAG TCTTGGAAACA  
24851 GTACCTAGGA GTGATTTTCA TGTCCAGGT TGATTCTCAG GTTATAAAGT  
24901 TGAAGAATTG AGTGTATTAT GTAGGCTGGA GATGATAGAG TTGTGAGGAC  
24951 AGACTGACCC ATGATAATAA CACTTACAAG AGAATCATGT ATAAAATAGT  
25001 GTCCTAGTTT GTCCATTTAC AGTAAGAGAT GTGACTGTTA AGCAGACCAA  
25051 ATGTTTGTGT TTATGGATGA CCATATTTTC ACCTTGATGG CAAATATAGA  
25101 GAGCTGTCTT ATAATTACAA GGGTCTTGG TAGGTAGGAA ATCAGATGAA  
25151 AGGCTTAGTG TTGGAGAATC TTAATTATTT CAATCTGCTG TCTCTTCTC  
25201 TGCCACTGGG ATAAGCCTGT TGTGGATTAG TATTCTTGGC TTTGGGCAAG  
25251 GAATGGAAC GATGTACTAT GATGTTTATG TCTGAATATT TTTAAGGGTC  
25301 TGTTTTGTGA CTTCTAAACT TATAATTCAT AGATTGCTG TAGTCCATGC  
25351 ATTGTCTGTT GGCACATTCA GTATAATTGA TTAGGTTTGA GCTTTTTTTA  
25401 AATTTTTTTT TTTAACATAA ATTGCATTCC AGTTATGCTT GTCTCTGGGT  
25451 CATCTGAATA GAATATTGGA TAATTTCTAC AGGTGGCTGA TCATGATCAT  
25501 AGTTCTTTAT TATTGGTTT TCCTAATTTT ATTTTCAGAG AGTAAAAATA  
25551 CCTATATATT CAAATGTGGC TGATACCTGG ATATTGGTTA TATTGTTGAC  
25601 TCTTATTTTC AGGAATTTAA AAATGTATCC ATATTAAAAA AACTAGTCTA  
25651 TAAGCGAAGA CTTTTTAGAT AACTTTCTAA TAGAATCTTG TTCTATTTGA  
25701 GTATTATATG TGTGAGAATC CTGACTTTCA AGTAGGGGAA AAGGACTGTT  
25751 TAAAAACAATT AAAACAATTA TATGGTACAT ATTATATATA TGTTATTTTT  
25801 TATGAGAATG ATACAGTTAA GATGTGAGAA GTAAGAGAGA TGTCATAGTA  
25851 GATGGAGAGG TGAGTATTGT AAAACTTTCT ACAGGAGGAA GCATTTAGGC  
25901 TGAACACTGA AAAATGTATA ATAAAAGTAA TAAATGTATA ATAAAAATGT  
25951 ATTACTAATA AAAGTAATTG ATAGGTAATG AAAGCGTAAG AAATAGGACT  
26001 TAGTATCTG GACAGTTAGA TGTTCATCC TTGTCTATAC AGCCAGTGTG  
26051 TGCCTCTCAC TTTTTTTTT CTAACTTTCA GAAAAATAAA TTTATTTTCA  
26101 TTTTATTTTG TTAGGAAGTA AGTGAAGGAC AAGTGTGGT TCTTGGGGCC  
26151 ACAAAATCGC CTCATGCCTT GGATGCTGCT CTCGGAAGAC CTGGGCGATT  
26201 TGATAAAGAG GTTGAGATTG GAGTTCCCAA TGCTCAGGAC CGGCTAGATA  
26251 TTCTCCAGAA ACTGCTTCGA AGGGTACCCC ATTTGCTCAC TGAGGCTGAG  
26301 CTGCTGCAGC TGGCAAAATG TGCTCATGGA TACGTTGGAG CAGACTTGAA  
26351 AGTCTTGTGT AATGAAGCAG GTGAGTGTGG TTTGCTATGG TGAGTCTCTA  
26401 TTGATGCACT TATCTCCAGT TFACTTACAT ACAAAATAATT TATATTTTAC  
26451 AGATTCTCTA ATGGAAGTAG CTTTGTCTT AATTATAAAA TGTTGAATTT  
26501 TTATTTGAAA AAATTTTAT TGGAAAAACC TAGATGATTC AGAAGACTAT  
26551 AAAAAAAAT AAAAACTACT CAATCCTACC TCTAAAGGAT AACCACCATT  
26601 ATAGTGATA ATAGTCAGCC TCCATATCCT TGGGCTCAGC ATCTGAGGAG  
26651 TCAACCAACT GTGGCTGGA AATATTGAGG AAAAAAAGT TAAAAACAGTA  
26701 AAAAAATAA AAAACTTAAA AAATATAGTA TCACAACACT AGTTGACCCCT  
26751 TGAACATATG GGGCTTGAAC TGCATGGGTC CACTTATATA TGAATATTTT  
26801 TCAATAAATA TATTGAAAA TTTTGTGGAG ATTTGCAACA ATTTGAAAAA  
26851 GCTTGCTTTT TCTTTAGCTT ACTTTATTGT AAGAATACAG CATATAATAC  
26901 ATATAAAAAA TATGGTTAAT CAGCTGTTTA TATTATTGGC AAGGCTTCAG  
26951 GTCAACAATA GGCTATTAGT AGTTAGTTTT TGGGGGAGTC AGAAGTTATG  
27001 CATAGTTTTT TGACTGCACA GGGATTGGTG TCCCTGACCC CCAAGTTGTT  
27051 GAGGGGTCAA CTGTATTTAC ATAGCATTTA CATGGGATCA GGTAAAAAGTA  
27101 ATCTAGAGAT TATTTAAATT ATACGGGAGG ATGTGTGTAG TCTATATGCA  
27151 AGTACTATGC CATTAACGGG CTTGAGCAGT CCTTAGATTT TGGTATCTTA  
27201 GGGGTCTCTG AACAAATACT CCATAGATAC TAAGGGATGA CTATATCCTA  
27251 CTAGACTTCT CCAGAGTATA CACACACACA CACACACACA CACACACACA  
27301 CACACACACA CACACACGGA CATGTAATCA GATCCATTGG TGGCGGTATT  
27351 GATGATGACA ATATTATTG ATATATTGTG CTGTGCTGTG GAAATCAGGG  
27401 AGAAGTGTA ACTGGAGAAT CACAATTTTC CTTAAAAATTG AGTGTATGTC  
27451 TGGACCCCTA TTAACCTCAG TGGGATGGTA CCAAGTTTGA GAGGCCAAAG  
27501 AAGGGACCCA GAGCCAATAA ATGAACTTA GGGCTTATTT GGCAGAACTT  
27551 ACTTACAGGG CGGCCAGTG GTGATGGGCT GGACAGGAGA ACTGCAATCA  
27601 CTTGCAAAAA GCATGCAGCT TGTATAGCAT TTTCACTTAG CATCCTCCCC  
27651 CCAGCAACTT CCACATGGCA ACCTCCTTTC TTAAGTTATT GCTTTCAGGT  
27701 GCATCTGCCA TATACTCCG ACCAGCATAC CCTTGCGTGG CCTTCACATT  
27751 CTTATGCCTT TCTGTATGA GATCCCTGGG GCCAGGTATG TGGAGGAGCA  
27801 TTAGAGCCAG TCTGTGCAGT AGCAATATAA ACTACAATAA CAAAAAAGAA  
27851 TAACAAATAT AATAACAATC ATACTGTATA GAAAGTTTTT CAAGGGCTTA  
27901 GGAGTTGATT AAAACACGTG GTTATAGGGT TTTAAGACTT AGATTCTGTA  
27951 GTGGAATAT GGGTATTTAA GGCCTGCATG GCCTGGGTTA GATCGTGAGA

FIGURE 3H

28001	GTCATCAGGA	ATACATACAC	AACAGGTTTT	AATTAATCCA	TAGGTTCCGC
28051	GCTTGTCGGG	GCAGTTAAGA	TGTCCAGGGC	CATGCAATTT	TACAAAGAAG
28101	GGTGCATGAC	ACACTATCTC	TGTCTCACTG	CTGTCATCCA	CTCTAGCCCA
28151	TCATTGTGTA	CAGCCTACCT	ACAGTGGGGA	GTGACATTAA	CTTGCTCCTT
28201	TACCAGGCGG	AAAATATGCC	ATCTCATGTT	GTTGGTGGTG	GGAAACTTGC
28251	TGCATGAGGT	GCTGTTGTCT	CTGAAGGGGA	ATAGGTGAAG	GTCACATATC
28301	CAAGTATCGA	AGTGGCCCCA	GGTACTCATG	TAACTGCCT	TGGTGTGGCA
28351	TGGCAGGCCC	ACAGCGGAGG	AGAGGGGGAG	CTCTCCGCAG	ACCCAGCAGT
28401	CTGTTTTCTT	CTGGAGAGAG	ATAACCATCT	GCACCCAGTC	AGCAAAGAGG
28451	TTTGCGGCAC	ACCATCTATG	GGCAAAAGGT	GAGTTGTTTA	GTGGGTACAA
28501	GAAAGGACAA	GTCCTGGCCA	TTTAAACAAGA	CATGGGGAGT	TGTGTCATTG
28551	TGAGAGAGCA	CCACCCCTGG	CAGCAGCCTG	ATGCCTGGTT	TACAATACCA
28601	AATGGACTGG	CTCCCTCTG	TAATGTGTTG	CAGGAGGCCA	GAGGAAGACA
28651	GTGGAGGTAT	AGTGTTCAT	GAGAGGATGT	TCATCCCTT	GCACAAGGGA
28701	GGACTAGGAT	TCATTATTTT	AGAATTACAG	TGGAGAGTAT	GGTATGAAAT
28751	AGGTGTGACA	TATATATCCT	GTTCTAGGCC	CTTCCCCCAT	GGAGCAGAAA
28801	AACTGAACCA	TCCGGCTGGT	TTGCCATTTT	CCAGAACCAC	GTAATGATGT
28851	GCTCCCAAGT	AGGTTGGTCC	TGTGGCAAGG	GCCATAGCAG	ATTACTTTGT
28901	GTCCCAAGTT	GGGGGCAAG	GTCTGCTGTC	CCTTACCCTG	TCTACCTGTA
28951	TCCTGATGGT	CGTATCACAT	CCTTGTGTTA	GAAGAGTATA	CATGATGGGG
29001	TGATGAGAAT	GTGCATATTT	ATTCAAGTTG	TGCACGGCTG	CTGGTAAGCA
29051	GCGTGTCCAC	AGAGCCAAGT	CCTATAGGAG	TTGTTTCAAC	AGTCCATTCA
29101	ATTTGTTTCA	TCAGCCCCAC	TGCTGTAGGG	TTGTACGGCA	GGTGAAAATG
29151	CCAGTGGATA	TCCAGGGCCT	CTGCCATTTT	TTGTACTTTA	TATCTGGTAA
29201	AGTACGAGCC	CTAGTCATTG	TTAATTTTTT	TTTTTTTTTT	GAGATGGAGT
29251	TTGCTCTCTG	TTGCCCAGAC	TGGAGCGCAA	TGGCGCGATC	TCCGGCTCACT
29301	GCAACCTCCG	CCTCCTGAGT	TCAAGCAATT	CTCCTGCCCT	AGCCCTCCTGA
29351	GTAGCTGGGA	TTACAGGTGT	GTACCACCAC	ACCTGGCTAA	TTTTTTGTAT
29401	TTTTAGTAGA	GACAGGTTTC	ACTATGTTGG	GCAGGCTGGT	CTCAAACTCC
29451	TGACCTCAGG	TGATCCACCC	GCCTCAGCCT	CCCAAAGTGG	TGGGATTACA
29501	GGCGTGAGCC	ACTGTGTCTG	GCCCATTTGC	ACTATTGATG	GAGACGCTGT
29551	AGGCTGCACA	CATCTGTTCT	GGTCTTTTFA	TGGTGGCATG	CTTGCTGGGT
29601	TATGCTCGTT	GTAGCCCTGT	GCAGGTTTCT	GCACAAGTTA	AGGCATAGTG
29651	GCAGCCATCC	AATAGGGGCA	AAGATCCTAT	GTAGTCTACC	TGCCACCATT
29701	GTGCTGGGCT	CTGGCCCTGG	GTGATCTTTC	TGGTATCAGG	TGGCAAGGGC
29751	CTGGGGTGTT	CCTGTGCATG	GGTAAGACAT	TGCTGACAGA	TGTGTACTGT
29801	GTCTTTGTAT	CATAGTGGCA	GGCTCCAATT	CTTTGCTATG	GCCCAAAGGG
29851	TAAGTTGTCC	CCTATGTCCT	GTCTTCTTTT	GTAACCAGTT	GACCACATCG
29901	TCTGTGGGGA	CTCCCTTGAG	GAGACGAATG	CAGGTTAATT	TGTCTGCCTG
29951	TTGATTTCCA	GGTTGGTGTA	GATGCAGTGT	GGGGATCCAC	ATGGTAGATC
30001	ATTTTATGCA	TCCCCCAGAT	GCAATGGGGA	ATGTCCTTCT	ACATGTCAGG
30051	GCACCAAAGG	AGGTGACCTG	CTACTGTCTA	GTCTGTGCT	TCCCATTGTA
30101	GTAGCCACAT	GGTGAGTCCC	TTTACATTGG	ATTAGGTAAA	AGTAATCTAG
30151	AGATTATTTA	AATTATATGG	GAGGATGTAC	ATAGGCTACA	TGCAAATACT
30201	GTGCCATTTT	ATATAAGAGG	CTTGAGCTGT	CCTTAGATTT	TGGTATCTTA
30251	GGGGTCCCTG	AACCGATACC	CCATAGATAC	TAAGGGATGA	CTGTATCCTA
30301	TCAGACTTTT	CCAAAGTACA	CACACACACA	CACACACACA	CACACACACG
30351	CACGCACACA	CATGTAATCA	GATGCATTGT	TGGCAGTATT	GATGAAGACA
30401	ATATTTATTG	ATATATCGTG	CTGTGGAAAT	CAGGGAGAAA	TGTGTACTGG
30451	AGAATCACAA	TTTTCTTAA	GGAAATGCAT	GCCGGATGCC	TGTTAACTTC
30501	AGACAGCCCA	CCTGTGAGTA	CACAGGACTG	CTGGGTCTGG	CTTATAGAGG
30551	AGGACCATCC	TGGCAGCTTG	CAGCTCAGCT	CATTGGCTGC	TATGTCCTTG
30601	GCCTGTATCA	TCAATCCAGA	TCCTGTCAGT	GGATGGCTGG	ATGGCTATGC
30651	CTGCTCAAGT	GCAAGGATTG	CCTGCTGACA	AGCTGTTTGT	GTACCAGGCC
30701	TGGTCAGTCA	TTGGGCGGTC	AGACATTGGG	CCCTGTCTAT	CCTGTATGAA
30751	GGAGAGCATC	TGTGGAGGCT	CAGCAGCCTC	CCTAAAAGAC	TATGTGACAG
30801	TTGTTACATA	GATGACAGGG	CCAAGCACTG	AATGGAGCTC	TGAGCTCAAG
30851	GGGCTATTAA	TGTGCTCCTT	TGTTGCAGGT	ATGTAAGCCA	TTTGGCCACA
30901	GTCTGTGCTT	GGGCATTCCC	AGACTTCAGT	TTCTGGAAGA	TACCCCTTAG
30951	CCAACCTGCT	TTGGGGTACT	GGCTGCATAC	TAGCATCAGG	ACCCCTTTTG
31001	TAATGTCCTC	TACTTGTGTT	AAGGCATAAT	GTATAGCACA	GAGTTGTTGT
31051	TCCATCACAC	TGTATCTAAC	TGCACCCCTT	TTCCGTAGCT	GGGACCAAGG
31101	TCCTAAAGGC	GCATATGTAT	GTCTCTGCTT	TTGCCACGGG	CCTCACCCAA
31151	ACCCCTCAAG	GTAACCTGCT	ACATCTAGTT	CACAGGCTGT	CTCTGCACCT
31201	GAACCTACAA	GGCTTGTATT	TATTTCACTG	TGACTTCAGC	TGGTTCAAAG
31251	GCCTCATCCT	TCTTGTGGA	TTAGTCTCAG	TGGGCCCCCT	TCTTGACTAA
31301	ACAGTATAGG	GGTCTAAGGA	GTTGGGCCAA	ATGAGGAATA	AAATGATGCC
31351	CATACCCCTAG	GAGTCTTAAG	AAGATTTATA	GCTGCTTTGG	TGTACACAGA
31401	TGTGAGTAGG	CCTGCACCCCT	ATCCATAATG	GCAGACTCAA	GTATTTGGCT
31451	GATAAGCCTG	GACTCTGGAT	TTTGTCTGT	GTTTATAGCT	CATCCTGTTT

FIGURE 31

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31501 GCCAGATGAG GCAGCAAGGT GTGAGGGGCG AGTTTGAAAG CTGGA AAAAG  
31551 ACTCAGAAGT TAGCAGGATA TCATCACTGT AATGG AAAAT GTGTACCCCT  
31601 TCCAGGACCT CCATGGCTAT ATAAATATCC CTGGGGCAAG ATGGTAAAAG  
31651 TCTATTGTTT TCCCAGGTG AATGCAAAAT GGTCTTGACT CTCTGCCGCA  
31701 ATGGGGATGC TGAAGAAGGC ATTGGTTAAA TCAATAACAG AGTGGTAGTG  
31751 GTATGTGTCC AGTGCCCTCT CCACCCCTCT TAGAAGGGAG GTGATATTGG  
31801 GAACATGTGC ATACGTTGGG GGGACTGCCT TACTTAATTC CCAGTAATCT  
31851 AGTGTCAATTG TCCATGTCCC ATCAGGCTTC CACATGGGCC GTACATGGCT  
31901 GTTGTATGGG CTGTGCACTG GCCTTGTAAT GCCTCCTTGG GCTAACTCCT  
31951 TAACAATCCC TGTGGTTTCA TTATGTCCCC CCAGCAGGCA GTATTGCCTC  
32001 AGTGCTACTA CTGTCTGTGT GGGGTTGGCA ACTATACTGG TGTCCATTTC  
32051 GCATTGCCCT TGGTCACATG CTTCACTACT CTCAGTCAGA ACTCCCCAGC  
32101 AGTTGTTTGG AGGGTCAAGC CTGATAAGAT ATCCATTCTC AAGATGTATT  
32151 CCAAGATGGG AGCTATACAT ACTAAATAGG GTTTTGGTGG CAGTCTCTCA  
32201 ACTTGTAATA CTCAGACAGT TCAACCTTTC TGATCCCCAT CCATAACCAT  
32251 CTTTGTCCAT TTTAGCCCCC TGGAAACCAAC GAATGTCAAC ATATATGAAA  
32301 GTGCATTGGG CTCTAGTATC CACTAGGGCA CGCACAGTGT GTTTATTCTT  
32351 AGGCGACCAA TATATAGTTA GTTCTACATG TGGCCTCTGG TCCCCAGGTA  
32401 CCTTGGCCAC CATTA CTCTT ATCAGGGTTC TGGGGCCTTG GCTTTCATCC  
32451 AGTCTAACAG GGTTCACACT TGCTATCCCT CTGCAGGAAG GGTGGCGGGC  
32501 TGAACCTGAG GCTCCCTTAGT GAAGCACTCT TCTGGTGTGA GCTTCTGCCA  
32551 CAGTCTGACC AGAACAGCAT TAGGCTGTTT ATCTGTTTTC ATAGTAGCTG  
32601 TTCCTGCCAC TACCAGGTTG TGCCACATTT GTTGGTCACT CACCCCTGATG  
32651 GGCCCCTTGG CCGTCTCCTT TCCTTTGGCG CCCTTGCTCT TCATCCCAGC  
32701 AGCAGCTACC CTTTGCCTAT GCAGTTTCTC CATTTCTCAT AAGTTGGTGG  
32751 CTGCTTGGGC CACCTGAGAC ACTGGCTGTC CTA TAGGGG GCTCTGGGTA  
32801 GACACTAGCA CACCATACCA TTGGTTGAGT GCAGACTAAG ATGGTGTCTT  
32851 TCATGTTGGC AGTGAAAAGC TCTTTGTTGG ACCTTGGTGA TGTTCAGCAT  
32901 AGATAGCATG TTTTCATCCCT AATTTCCAGA TGATGTCCTG CAATTCCTCC  
32951 ATAGTCTGCC ATCACAAGG AGATATGGGG ATACTGCCCT CATCTGGCCA  
33001 CGCTTCATTG CAGCCACAA CCACCCAGCT AAGGAGGGGC ATGGCCTGAT  
33051 CCTCATTTGT GGCACCATAG AGGTGCTGCC TCAGGGCTGG GTGGCATGGC  
33101 ATGTATGCCA TTCCACTCAT CTTGAGTCTG GAGAGTATAA CACCCCTCAT  
33151 CCGGTGTGCC CATAGACAGA GAAGCCACCT CTCATCAAC TGTCTCTCTT  
33201 CCTGAACCCA CTTTCTGCC AGCTCCACTA GTTCCATAGT GGTGTAGTGC  
33251 TGCAATTGGG TATGCTACCA TCTTTCAGGC AGAGACAAGT TTTGTGGGTC  
33301 TACTCCCTGC AGGCACCATT GGTCTGACTT TATCTTGGTA GAGAGAACAG  
33351 GACCTCTATG GGCTTATCCC AGTCCCTCACT CTGCTCCTCA CTAGAGCTCT  
33401 CCACTGGGTC CCTGGACTTA GGAAGATTTA GTCATATAGT CCTA ACTTGG  
33451 CATGGGAGCT GGCAGCCCTT CAAACAGGCT ACCTGACAAG CTGGGATTTC  
33501 CATTTTGTCA TCCTGTTTCT GCAGGTAGGA CAGTAGGGTC TCTGATGTTT  
33551 TAGGTTGAGC TAGTCTGGCA TCTCTTCTA CTCATAGTTC TTCCTATAAC  
33601 AGACAACCCC TGGCCTGTGC TGGGAGCTCA GCCTCAGTGG CTGCTGGGAG  
33651 CACAGTCAAG ATGAGCCAGC CATTTGTGGT GCCACAGCTC AGGCATCTAA  
33701 CTTTGTCTTA GTTAGATCCA CCCCCCTGCA ACAGCTCTTC CAGACCCCTC  
33751 GGTGTTTTTG GGGTGTCTG TACTCATACA TTGGGTCCCA TCCATCAAGG  
33801 ATAGTGGCTT TGGGCACTA CATAAATGTG ATGGTCAGCC CGGGACCCCC  
33851 CCTTGGATT TCCCTTCTCT GATCTTACGG TCTCGGTGCT CATGAAATTT  
33901 TTCTCCACCT TCCTGCTGGG TTCACCACT GTGGTACTGA GTCGGTGTTA  
33951 ACTTCTGTAA GGATGGCACC AGGTTCAAGA GGC AAAAGAG ACCTGGAGCT  
34001 AGCAAACAAG ACATAGGGTT TTATTAGGGA GAACTAACAT ACAGGGACAG  
34051 TCCAGTGGTG GTGCACTAGA CAGGAGAACC TCAACTGCTT GCAAAAAGCA  
34101 TGCAGCTTAT ATAGCACTTT TATTTGGCAC CCTCGGTGCA GCAGCCTTCA  
34151 CGTGGCAACC CTCCTTCTCT AAGTTATTGC TCTCAGGTGC ATTTGCCATA  
34201 CACCCACTCC CACCGTAATG GCATTAATCC ATTCTGAGG ATTAATGTTG  
34251 TTAAGGTCTC ATGGCCTAAT CGCCTCCAG TGGTCTACC TCTTAATACC  
34301 ATAAAAATAT CAATTA AATT TCAACATGAG TTGTGGAAGG GACATTCAAA  
34351 CCATTGCAGT TATTTTAGAG CTTTAGTTCA GAAATACAAA TGCAATAACT  
34401 TTTACCTCCA AATCATTGAC TCATAGTTGT CTAATTTAGT AGGCTTTGAA  
34451 GACCCCTGCT TTAGTCTTTT TGACCTTTTA TCTGGACTGA TATATGTAGG  
34501 GAAAGAGGCT AAGAAGGAA AAACAGTTAG GAAAAGAAA CTTGGAAGAG  
34551 ATATTTAGGA ATCTTTGAAT ATCTTACTGT TGGTGGAGAA AATCGTTTTT  
34601 CTTTCATTTT ATTTGATCAT TACCACAATT TCTAGGTTAT AGGAATCACA  
34651 GTTGGGAGAG ACTGCAGGTT ATGTAGACTA TCAAGGCAAA TACAAACATT  
34701 CTTTGTGTAC ATTTTGTCTT AGGACTGGGT CTCACTCTGT CTAGTTTCTG  
34751 TGAAGCTGCT TCTAGCGTCA CAGGGATTAG TGGGCTGGT CGTAGAAATG  
34801 GATTACCTAG GGATCAAAAA GCAGAAGTAT CAGTAGATAG CTTTGTCTCT  
34851 TTCATTGCAT AAGGTGGTAA TGAAGAGTCT GGATTGCTGT GTAGGTGTTG  
34901 CTCGTAGGA CTTGCCATGT TCAGCATGCC TTA TAGAGA CTTTGTGACT  
34951 TTCTAATACA TTTATGACAC TCTAGAAGGC TCTGGAATTT TTGCTGTCCA

FIGURE 3J

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35001 GAAATACACT GTCTGATGAA GGAAAGAGAT TTGTAACAA CTACAAATAT
35051 AATGATAAAC TACTCATAAA AATGTAAAAA TGTAAGTACT TCTGTGAGGA
35101 AAGCAAATAC TGTGGTTAAA TAGAAAAAAT GACATCTAAG AAGAAGCTTA
35151 GAGTAGGAGT TCTACAGTGA GAAAGTGAGA AAAGGAAAC ATTATTGTAT
35201 TGAATCCTCC TACCAACCCCT GTGATAGAAG TATCAGACAG ACTCAAGAAA
35251 GGCCTCAGAG CGAGTATCCA GCAGAGCTGG GATTTAAAGC CAAGGTCATC
35301 TFACTTCAAC TTCATGCTCT TAATTAACAA TAATAAAAGG TGGATCTTGT
35351 TTAGAGGGGT ATAAGACTTT ATAATTTAAT TTTAGCGTAT GATACTAAGG
35401 AGAGCATCAG TTGATAAAGT AGAAAAATATG CAGGTGTTGA ACTGATCTAT
35451 TTTCCCTTAA TCTAGCAATG AATCAGATTA TGAAGAGTAG TTTTATTTAT
35501 GTATTTATTT ATTTTGTAGT GGAGTCTTGC TCTGTGCGCC AGGCTGGAGT
35551 GCAGTGGCGT GATCTCGGCT CACTGCAAGC TCCGCTATG AGGAGTAGTT
35601 TTTAAAAAGA TTAGTGTCTT AATTACAGAA TCCAGTAGGG AAAATATGTT
35651 TGGTTTTGTG TATACTGTCC CAAATACTAG TGTATGTTGT ATTATGTAGT
35701 ATCATTTTCT TAACTTTATA TAGCAGAATA AAATTTGAAA ACAGTATGCT
35751 GGAATTTTTG AGAAGAAATT TTCTAATGAG GCAGGGTGGT ATAGTGTAGA
35801 ATAGGTTTTG AGAGTTGGAC AGACTTGCTT TTAATAATCAG GCTTGTGATC
35851 TTAGACAGGT TCTATGCCTT ATCTGAGCCT CAGTTTTCTC CATTTGTAAA
35901 TTGAGGAGAT TGGAGTAGAT GATATTTTAG TGTCAATATG CATTATGACA
35951 TCCCTGGAC GTAAGGGAGA ACAAGAAAAA AATGGAAGAA AAAGAAGGAT
36001 AGGAAGAATT AGAAAAAGGA AAGGGAGAAA GAAGGTAAAG AAAAAAGCCT
36051 AAGCCTCTTC AGGCCTCATC GGCTATTTTC AGTGCTCTTC TCTTTGTAT
36101 CTGTGTGAAT GACTTACACT TATGTAGTTA GGGTTTTCCC ATGGTGTCTT
36151 TAGAAACAGT GCTATAAAGC AGACTAATGT TGGTTGTGAA GTGCACTGCA
36201 TTTTCTCATT GGAACAGTTT TATAATTTCT GACTAAAGAC AGAGTAAATT
36251 ACCAGTTTGA TTAGTAGTGT GACTTAGAAA GCTGAAACAA TTGGGAAACT
36301 ATAAGCATTT GAAGTAGTAG GACTATGTTT CAAGTGCTAT AGAATAGGCA
36351 TAAGTGTATC CCACCTATCG AACATAACAG CAGCATTCCT GTTTACTATG
36401 ATGTGTGCAT TGAGCATAGG GAAAAACATT CATTCTGCAT GGTAGATTTG
36451 AACTACTCTC TTAGCTTTAA ATAAAAAGAA TTGGACATTT GGTGTGTGAT
36501 TCCACCTCAG GTTACAGCAG TTATTAGGGA ATAATTTGAG TTGCTCTCAG
36551 TCCTTTGAAA TAACTGCCTA CACAAGTTTG AACTCACATC TGTTTTTTGT
36601 TGTGTGTGTT GTTGTAAAC ATGATAAGTT TCCTTGGGCA GGTGCAAGCA
36651 GTCACAATCA TTACACTGAT CTTAGAATTA CCCAGAAAGT TAGAATAATT
36701 GTTTTTTTAA ATAGCTATGG TAATATCTTA ATATTGGAG GCAATATTAA
36751 TGACTTCTGG TATATTATAG GTGCTCAATA AGTATTTGAT TAGTTGAAGA
36801 ATAATTTGAG AAATATGTGT GAAATCTAGG AGACATAATT ATTACCTAT
36851 ACACCCTTGA TAAAGGAATA GTGTTTATTA ATTTTAGAGT TGAGCTTAGT
36901 TTTGTTTGTG AACACCTTGG GAATCATCTC TTTTTTTCCA CTCTTTGTG
36951 CCTTCAGAAA TCTCTGCTTT GCGCTGAGGA AAGAACTCTG AAGTGGTTAT
37001 TCCTGCCTTT ATAAGTAGCA ATGAGCAAGT TATATGTTCT GTGTAATCTT
37051 CAAAAATGTA GGACAGTGAG GCTGCTTTAA ATAAGTGGT TTAGTCCATT
37101 TTTGCCCTCC CACTGACAGA TTTCCAAGCT TTGGCTCTGA TACGGCCTTT
37151 AACTACATTT GTTTAAAAACA AGTGCTTTTC AGGAGGTGTT TTCAATGTTT
37201 ACCAGTTGTG CTATGTTTAA ATGGAGTGCT TGTAATGGC CACTGGCATA
37251 TATGGGTAGT TAAGGCATCT TGACCAGATT CGTGAGTTTG AACTAAGAG
37301 ACTCCATCTC CAGATGTATT TCTGGGTATG TAGGTTAAAT CTATCTCTTT
37351 CTATTATTTA TTCTTCCCA CGGAATTCAG GTTTGTTTCA CATGTTTTTA
37401 ATTCAGGACC AATCACTTAG AGCAAAGAGT CTTAAACATT ATTATATGAG
37451 AATCACCTGT AGAATTTACT AAACCTCGTT ACTGAATCCC CCTGACAAGA
37501 GTTCTGTATT CAGTAGGTCT GAGCTGGTGC CTGAGAATGC TAACAAGTTC
37551 CCAGGTGATG CTAATGCTGG TGCTAATGGG GCTGATCTGG AGACCACACT
37601 TTGAGAGCTA TTGACCTATA GGGCATTAGT TCCTAAACCT CATTATGCAT
37651 CAGGCTCACC TGGGAAACTA CACATTCACT CATGCTCACA GTCACATTCC
37701 CACTCATAAT TAAGTGTTTA AGGGAGTTAG GAAGCTGGAG GCAGGATCTA
37751 TAATGTTTTT CAAGTGATTT TGAAGCAGCC AGTCTTGCCC TTGTCTGTGA
37801 TTGGACATTT GATTGCTGTA TTTAGGCAAG TGGTTCTCCA ACCTATGTAA
37851 GAAGCATTTG TAGAGCTCGT GAAAACACAG TTCTGGGGTC TATCCTGCTG
37901 ATTCCTGTAG GTCCAGAAGG TCCAAGTGGG GCCCAGATT TGCATTTCTA
37951 ACAAGCTTGC AGGTATGTCA TTGCTGCTGG TCCAAGAACT GTACTTTGAG
38001 AATCACTGAT CTAGGGCAAC CAACTACCCA GTTTTGGAG ATTCTCTAAC
38051 TGATTTAAAT AACTCGATTA AATTTAGGGA TTGAAATTCT TTGACCGTCT
38101 CTAATAGTGT TGTGCGTTT CCTCCAGAA GTTTTTGTG ATAGTAATGT
38151 GCTCTTCCAA ACTATCATTT AACTTTGCCA CTCAGAGAA AATGAATGTC
38201 TTAAGTTTTT CAGTTATGTA TAATGGTTCC GAATAAACT TTAAGTGG
38251 CAAATAATTC TGAAGAAAAA TCACAAGTAA AACAGTTAAT TAACAATTCA
38301 GAATACAAGT ACATGTGTAT ACATGTGTAT TTCTAGTTA AGATTGTGGA
38351 OCTGCATGTT TGTGCTTTTT ATATGTTGTG TCTCTGATGA TTTTCCCTCT
38401 TCTGGACTGC CGCATAGTGA AGGAAGCTCT GTACTTTTTA ACAAAGTTG
38451 TGCACGTATG TCTAGTAATG GCATGAATTG AAGTGATTCA GAATTTCTTA

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FIGURE 3K

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38501 GAACATAGTG AGCTATGCTT CCTGATTGTT TCTGTAATCT AAAGGTTATT  
38551 GTTTGTAGGA TAGTAATACA AAACCTCTGT AGTGTITGTG TAGATTGTAC  
38601 ATGCCTTTTC AGAGGATAGA AGGTTTACAA TCCATACTTT GTGAGAGTGA  
38651 TAATGCGTCT TTTACAGTGT GCTTACTCTC AACATCTCTA ATCTTTTATT  
38701 CCAGGTTACT AAGTATTTTC CATATCTTTT AACTTTGTTC CCATAATGAA  
38751 TATGAAAATT GGAAGCACTA CAATAGGAAG TGTGCTTTTC AACCCTTAGA  
38801 TCTCACATTA TCTGAGCAGA TAACAACGTT TGGTGTITGT GATTGGGTGT  
38851 GAAGCTTATT TTCAAAGTT ATATTTTCTT TATAATTAAT TTTTATAGCTA  
38901 GAGTGTGTT TGATATGTCG TGACTTGTCG AAAGAGCTAA TGTITTTGTAG  
38951 TTCACCTTTT TAAAGCAAAG AGCAGCTGCA TTTTGAAATG TTTTATCTCA  
39001 AATGGGCAAG TTGTTTACAA GCTAGACTCT AACACATCCT GACATTTAGT  
39051 GTCTGTGTTT GTATTCTCTG TGGGATTAGG CTGCCTTTCT AATTAATTAG  
39101 TTGCATAGCC TTTTATTAAT TCCCTCAAAA TTTATAATGT TTTAAATTAA  
39151 CAACATAGAT AAGCATACTG CATTTTITGG GAAAACATGA AATGTTAATT  
39201 ATGTAGCAGT GACATAAGTT TCGTAAACTC TGTGTAATGT TAGAAGATGC  
39251 TTACAACAAT ATTTTCCAAA TATAGGATT TATTATAAAC TTATCCTTCT  
39301 AAGGCTGCGT GTGCCATTTC AGGAGAGTGA ATATAAATAG ATCTTGATTT  
39351 CTTCAAGAAG TGGACTTAGT CATTTTGTIT ATGGTGAAAG GAAGTATTTG  
39401 CTTTGGCTCT CTAAGAATTG TCTTTAGCAT CCTTGTAAAT TACACATCAT  
39451 TTCAACATGT TCTTACCAAA TTCTCAGGCC TTGATAAGGT AGCATAACAG  
39501 AACAGGAAGA ATTTAAACTC ATATTTAAAT AATTATTTTG TTATTACAGC  
39551 ACTTAAATCT GTCTAGTAGC AATACTGAAT CTAATAATTG TAACTTTTTC  
39601 TGAGATGGAA AATTTTATCT CTGTGCCAGT GTTCTGAGAT ATTTTATAGCT  
39651 CATTTGTCCC TCCACCCCCA ACTAGCTTAC TTTAACAGGG ATTTATGGAG  
39701 CATCTGCTAT GTATGTAATA GTCCAACCTC TATGAAAGGT TCTGTTTCTA  
39751 ATATTTTTTA CTATTTTTTC AATTCTGTCA ACGTGTITTT CTAAGTTAGA  
39801 ATTAATAATAT TGATACTGTA GAAATTTGAT ATTTTAAAT AAAGTCCAGG  
39851 GAAATAATGG GACTTATTGC AAAGCTTATG GTGAGCTCTA CATTCAGATG  
39901 CTATCATTAT ACTTTATCAG CTGATAAACA TTGAGCAAGC TGTTCACCT  
39951 CTTGGGTTTT ATATCCTCAC CAGCTAAGTA GGGATAACAC TATATGGTTT  
40001 TAAGAGTTCT TATGAGGTTT AGTAATATAG CCTGGCAGCA GTGGTGATGG  
40051 TTTATATAGG CCCTTGATAA GTGTCACTTA ATTTCTCCTT TTCTTCTTTA  
40101 GCGTCTGGAA AATTGATATT TAAACATTTT CTAAAAATTG TATTTTACGT  
40151 ATATTTATGC ATTTCTCTGG TAGAAGCTTG TTTGGATTTT GGCAATTTTT  
40201 CTGATATGAA GTTCTCTTGA TTATCCTAGT ATAAAAGATA GGGAAATCTG  
40251 GCAGAATCCT TTGCTTTGCT AAAGTAGTGA TTTTCACTGA ATCTGAATCA  
40301 GTAAAAATCT TGCCCTGTCAG TAAGAATATG CAGACTAGAG ATATGGCTTG  
40351 TTTTGGGTA GCGTCTTGA CAGATTTTCT TTCTTTTGA GACGGAGTCT  
40401 TACGCTTTTT TCCAGGCCG GAGTGCAGTG GCGCAGTCTT GGCTCACTGC  
40451 AACCTCTGCC TCCTGGGTTT AAATGATTCT CCTTCTCAG ACTCCTGGGT  
40501 AGCTGGGATT ACAGGCATGC ACTACAACGC CTGGCTAATT TTTGTATTTT  
40551 TAATAGAGAC GGGGTTCCAC CATGTTGACC AGTTTGGTCC TGAATTCCTG  
40601 ACCTCAAGTG ATCTGCTCAC TTCAGCCTCC CAAAGTGCTG GGATTACAAG  
40651 CATGAACCAC TGTTCTGGCT GACAGATTTT CTTGCTGAAC TTTGGGTCAT  
40701 CCCAGATGTG AGTTGCTGT AGGCGTGTCA TAGAGCAACA GTAGTAGGAA  
40751 TACAAGTTAA ATTGATGTAT ATGTCATGAT AATCAGTCCA ATTCACTGGT  
40801 CCCCACCTT TCTGGCACCA GGGACCGGTT TTGTGGAAGA CAGTTTTTCC  
40851 ATGGACCTGG GGTGAGAGG TGGGGATGAT ATCCGGATGA AACTGTTCCA  
40901 CCTCAGATCA TCAGGCATTA GATTCTCATA AGGAGCAGAC AACCTATTTT  
40951 CCTCAGGTGC ACAATTCACA GTGGAGTTCA CACTCCTAGG AGAATTAATG  
41001 CTACTGCTGA TCTGATAGGA GCGCGAGCTC AGGTAGTAAT GCTTGCTCGC  
41051 CTGCTGCCCA CCTCTGCTG TGAAGCCCAG TTCCTAATAG GCTAGTACCA  
41101 GCCCATGGGC CATTTGGTTG GGACCCCTGC TCTAATTAAT GCATTTTACA  
41151 AGGGACGTAT TATTGTAGCT AGATAAATAA GCAGTAATTT TGCAGCATAT  
41201 TTCATAAGGC AATGAATTTT CTCCTCTGTT TTATAATTCT AAAATGTAGT  
41251 TATAGAATGT TATATTTGTG ATATTGGGAT TTGTCTACT GTGTAATAT  
41301 TATGGATATT ATATAGAGAT GGAATTATTT TTATCAGTGA AGTGGGTATT  
41351 TTAGTATTAC TTTTGTACT CATTTGAGAT GACTGGAAT GAATGGTTTG  
41401 TTTCAAAAA AGAGGTGGTA GTTTTGATTC TGTTTAAGCT CTAATGACA  
41451 TATACTATTT ACTTTGCTAG TAGAAGATTT TCTGGGTTGT TTTGCCAAGA  
41501 CTATAAAAA ATAAAACTTG AGGAAAGGTT TTCTTTCTAA TTAACAAT  
41551 CACAAAAATA AAACCAGGCT ATCTAAATAA AAGTTATTTT TGAGAGTTAT  
41601 TCTTGATTCT TTTTCTCTT ACTCTTTTTT TATCTAATCC TGTCAGCTCT  
41651 GTTTTCATAC TTATTAGAA TTTGACCTCT TAAAAAATT AACTACTTTC  
41701 ACTGCTATAC CACAGTTCAC ACCATCATCA GCTCTGTCT GGACTATTGA  
41751 AATACCTTCT TCCTGCTAC TGTTCCTTTT TCACCTCTCA TCTATCTTTA  
41801 TTTTTTACAT TGCTCTAACC GGAAGACTTT GAATTATAGG TTTTGAAGAT  
41851 GAGGACAGGT CTAGTTAGA GATATGGACT TGGGAGTTGT TAGTAGTTAA  
41901 CATGGTGAAG CTGTAGAAAG AATGAAATCA CTAACAGAAG GTGAGTAGAG  
41951 TTCTTCACT CATTGAGCCA GGTACTGCAC TAGATGGTGG GGCTACCTCA

FIGURE 3L



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42001 ATGAATAAGA TAGACTTGGG CTCTCTCCTC ATGAAACTAA GACTCACAGG  
42051 GAAATGGAA AGTATATAAG ATAAGTACAA TACAGTGTGT TGGGTGTTAT  
42101 GTGAATGATC AGGGTGCATT CAGAATGCTA ATACAGTAGA AAGGTCTTGG  
42151 GAAATACTGT CATTCAAAGG TTGGGTGTGT AAAAAATATT TGGTATAGGA  
42201 AACTGAGGAG TGGCTAGAGA GATGGGAAGA GAACCCAAAG AAGTGGTGAC  
42251 TCAGATGAAA TGAGGTAAGC ACTCAGTGAG GAAATAATGG GTATTGGTTC  
42301 ACACTCATTG AGTACTTGGG TTATGTCAAC CACTGTTTGA AGCACCTTGT  
42351 ATGTACTGAC ACATTTCCTC CTCACAGCAG CTCTCTGAGG TTCTCTTTAT  
42401 TTTGTAGTTG AGGAAACTTA TGTCAGATTA AGGAAATTTT CCAAGATCAC  
42451 ACAGGTAATA AATAGTGGAA CTAGGATCAA CAGTGTGTAT CACAGTAGAG  
42501 ACCACAGTTA CATAAAGTGC TTAGTTCCTT ACTTGGGAGG TCATGGGAGT  
42551 GTGGAAGAGA GACATTCTAG TGGTGTCTTG TGCTAGCTG CTGGATTGCA  
42601 ATAAATTGAA GGGTGATTGA TTGAGAGTTG AAGAAGCAGA TATAGTGATT  
42651 GTCAATTTCT TTTTGTAGTT TGTTGATGTA TTATTATTAA TATTTAGAGT  
42701 TTTTATGCTT TCCATAAAAG AGGGATAAAT ATAGTTAGTC CTCCCTCCTT  
42751 GTCATCCCTC CCTGTCTCCA GTAAAAACCA AATCTAACTA TATTTCTTTA  
42801 TTATTTTCCT GGTACTCTT CTCTTACCTG GGCCCTGACT TAGTCTACCC  
42851 AGCTGTGAAT CTTCAGCTTC TCTTGGCATA CAAATTGTAC TCTAATCACC  
42901 TTTTTCCTAA TAACAAAAAC AAAAACAAAA CTCAGTATTT TAGTAAGGTT  
42951 GTTAAGCCAG TAGGTAAAT AATGAAATAT GAAAAATTTG AAAATGGAAA  
43001 CTGTATTTAG GGCAGTTTGA AACCTAGGAC TGGTGAAGTG AATTAATCTT  
43051 GATGTTTTAC AACTATAGGT TGGTGCAAAA GTAATTGCGG CTGGGCATAG  
43101 TGGCTCACAC CTGTAATCCC AGCACTTCGG GAGGCTGAGG CGGGTGGACC  
43151 ACTTGAGGTG AGGAGTTCGA GACCAAGTGT GCCAACATGG TGAACCCCGG  
43201 TCTCTACTAA AAATGCAAAA ATTAGCCGGG TGTGGTGGCA CATGCCGTGA  
43251 GTCCAGCTG CTGGGAGGC TGAGGCACAA GAATTGCTTG AACCCAGGAG  
43301 GAGGAAGTTG CAGTCAGCCA AAATCATGGC ACTGCACTTC AGCCTGGGCA  
43351 ACAGAGCAAG ACTGTCTCAA AAAAAAAAAA AAAAGTAAT GCAAAAACTG  
43401 CAACTAGAAT AGAATAATCG ACTACTCTTT CAGAGATAAT TTAGTACATT  
43451 CCTTATTTT ACAGATGAGG AGAGACTATG TGATACATTT AAACCTAAGC  
43501 AGTTAGTGAG AAATAAGCCT TGGCTCAAGG TTCAGATCTG GAGACAAATG  
43551 TGCCCTCCAC AGTGCCATTA CCTTTAAAG CAACCTTTGA AAGTGATAGA  
43601 GGGTTTGAA TAGACTGGCT CCTTTGATCA GTTTAAGTTA CAGCAGTCAC  
43651 TTATAATATA AATAAGGTGA GAACTACAAT AACCTTTAAG GATATTCTAT  
43701 TTGATTTTTT AAAAAATTTT TTATTAATGG GCAGTGAGAA ATGAAACTTT  
43751 CCTAGTGGTA CAGCAAGTGA TACTTAGCAC CTGTGCTATA CTTAATACAG  
43801 AGTTGAGGGA GAATAAAGAC TCCAAATAAA ACAATTTTT TAGAGTTCTG  
43851 ATATTTTGAG GAAAGTACAT TTTAAAAAAA GGAGACTTAG ATTTTGTGTA  
43901 TACTTGCTTT GTTTTCATAT ATGTGAGTAT ATCATTAGCA AATTTTATGC  
43951 TCAACTTTTA GAATTTAAAT ATGAGATCCA GATGTCCAAG TTTTATGTTA  
44001 CCTTTTCATA TAATTAAGTT TCTGTAGGCA GGTAGTAATT CTAAAAGGGA  
44051 TTGTTAACTT CTCTGATCAG TTTAATTTTA TTGTTAGTTT CTAATGAAGG  
44101 AGCTTAATTG TGATCTCAAA AATAACATAT AACTTAGCAA GCACTGAGTA  
44151 TAAAAATTGA GGATTTTATA AACATGGGGA CAAGATGATG TTTGTTGTTT  
44201 GCATCTGGAG CAGATGGTTT TGAAGAGCAT GGGTTTAGAA TAATTGCTCT  
44251 TGTCCAGAAT TGGTTATATT GAAATATTGA TGTAGAGCTT GAGGTGGAGC  
44301 AAGTCATATA CAAGTCATAC GTTGGAAACA GTGTGTTGAC ATTTGGCTCT  
44351 CTAAAGCATT TTGCCCTTTT TCCCTTTCAA GGTATCTTGT TTTCCAGTCT  
44401 TAAAAATTTT AAGAGCACTG GAAAAATAAA TAATGAAAAG AAGATGATAC  
44451 ATTTTGTGTT GAATTAGCCA CACCTCTTTT TTATTTCAA ATTGTGTTTC  
44501 TTAACATAGC AGTATTGCTT CTGCATTTGC TTACATTTT AAAAATTAA  
44551 TCCCAAAGTT AGTGAGAAGA GGAAATGTTG ATGGCTTACT TTCAACCATA  
44601 TTCTTGATG TACATGTGTC CATTTGTTCT TCTAGTTAAT TGTCTTCAGG  
44651 TTTCTAAAAA TATATGTATT TTTAAAAATT TAATCTTTCA TTATGGGTTT  
44701 CAGTATGGCC TTATTAGAAA TGGTGATGGC CAATAATTTA AACTTAGCAT  
44751 CATAGAATTT TAAGTTATTT AAATTTGAAT AATTAGACAA AATACATTTT  
44801 AATCTTTTCA TTTAATAAAT GAGGTAACCT ATGGCCAAAA GGGCTAAGTC  
44851 TTATTTAAAG TTGTGCTGA GCTAGTTAAT GGCAGACCTA GAGCCATGGA  
44901 GGATTGGTTG CATTAGTATT ATAGCTCCAA GGATCTTTAA TTTCTGTAAG  
44951 CTCTTGATAA TATATTTAAC ATTTAATTCA TACAAATCT GTTTTCAAC  
45001 TTACATGTTA TTTTCAAGAA TAGCATTTGT TGTGTAAAAT AGGATACGTT  
45051 TATATAGAGT CCAGATCAA TACTTCAGAG TGGGAAAGAA TCTGAAGGCC  
45101 TGTGGCAGGG GTCTCCAGGA TCTCTCACGT TTTTATAGCT TTTGCAAATC  
45151 AGTAAACTTA CCTATTGTTT TTTTCTCCTT TCTAACAATG CACCATACTT  
45201 TATATCCTCA CATACCTACA AACGAAGTAA TAGAGTTGGA TGTAGGTTTA  
45251 TTTAAACATG TTTCTTCATA TGTATAAGAC TGAACCTCTG AGACTTAGGA  
45301 TTTTATCTTT TATTATTCTA TAGGGCCTCC TAATCTCTAA AGCGCTATGC  
45351 TCATTCTTGT CTCTATTAT ATGCTGTTCC CCCTGCTTGG AATAGTCGGC  
45401 TGCCCTTTTG GCCCAATTC CCATTTTATC AGGTAAACAT CGATTCACTT  
45451 TTCAGGGCTA ATTAATTGAA CTTAGATATA TGTTTCAGTT TTTCAATTTG

FIGURE 3M

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45501 GAAATAAAGG AATGTACTAA ATGATTTCTG TGAGAGTCAT TAGGTAAACT
45551 AATCCTTCTC GAAACTGAGT TCGATGTTCC TGACGTGTTT TTGTGCCACT
45601 TTGTTCTTTC CATGTCACAG TACTTGGCAT AGTTTATAAT AACTACGGGT
45651 TATGATGTAT CTCTCCTATT AGACTGTTAG CTGTGAGAGA TTGATTTGCC
45701 TTCTTGTGTA CCCTCATATG TAAGAGCTCA GTACAATTGT TTAATGAAGT
45751 AATTATGTCT AGGAGGTTCT TGTGAAATAT TTTGAGTGAA TAGATGAGTT
45801 AATATTGAAA AGAGTGCCCA TGAAAGAGTA ACTCCTGTGG TCAATGAATA
45851 TATCTTCTCA GTGGCTTTAT GATATAATAA TACTTTAATT GCTTTCCTTT
45901 AACATGAATT GTAACGTAAT TGGCAAGAAA TACAAGAACA GGGGTTCCTT
45951 TACTGAGAAC TATTTTAAAT AAATATTTTC AAAACCAAGT CGGTGCAGTG
46001 GCTCACACCT GCAATCCTAG CACTTTGGGA GGCCAGGCCA GGAGAATAAT
46051 TTGAGGCCAG GAGTTTGAGA CCAGCCTGGG CAATGTAGCA AGACTCTGTC
46101 TCTAAGAGAA ATAAAATTAG CCGGTGGTGG TAGTGTGTGT CTGTAGTCTT
46151 AGCTACTTGG GAGGCTGAAG TGGGAGGATT GCTTGAGTCT AGGAGTTGAG
46201 GCTGCAGTCA GCTATTGATT TACCACTGCA CTCCAGCCTG GGTAAATAGAG
46251 CAAGACCTTG TCTCTTAAAA AAAAAATCAG AGTAAACGGCA TGTAAAAAAT
46301 GCTGTTCTCT CTCTCAAGT TTTGTTTTTC TTCTTAGTCT ACCCTGCCTT
46351 TCATACCAAC CATATTGCTT TGTATAAAAT ATTCTGGCAA ATCAAAACTC
46401 TTTGTGAATA CTTTAAATCA TATAATCTAT ATTTTGATT CTAGTATATT
46451 TTGCACACTA GTCAGCTTAT AAATATGTCC TGCAATGATT CTGAGCCTGA
46501 TCAGGATTTT TGTATAGAAA ATTCCCAAAA CTGTTTTTAT TATTTTTTTA
46551 AAGAGGTAGG GTCTTGCACT ATTGCCGAGA CTGGTCTTAA ACTCGTGGCC
46601 TCAAGTGATC CTCCACCTT GGCTCCTGA AGTGCTGGGA TTATAGGTGT
46651 GAGTCACTGC ATTCAGCCCC AAAACCTTTT TTATGGATT ATTTTCCTAG
46701 ATCATCATGT TTTTAATTAT TCTGATTAGA AAGTACTCTA AATAAAGATA
46751 TTTTCTGTGT TTAGTAATAA AATATTAAGG AATAAACTTC ATTGTATATG
46801 TACATATGGA TACTTAGAAC TGAGTTTTTT CATTTTATTA AAATTTTTTT
46851 AAATTAATAG ACTTTTTTTA GAGCAGTTTT AGGTTTACAG AAGAATAAAG
46901 CAGAAAGTAC AGATAATTTT CATGTAACCT CCTTTTTTTC CAGCTTCTCC
46951 CATTATTACT GTCCTGAGTT AGTGTGGTAC CTTTGTATA ATTGATGAGC
47001 TAATATTGAT ACAATGATAT TTCATTTTAA ACTGCAGTTT ATAATTTCTA
47051 AAACTACCAT CCCTCAATGT TATTTAAACC AGCTCTGTGT TGTGTCTTFA
47101 TTTATAGTTT TTTTACTT GCGCCACACT TTTTACATAC TTTTTTAAAA
47151 TAAACTTCTT TCTCAATGTA TTGCATGTAT ACATAAGAGA GCATAAGCTA
47201 AAATATCCAT GTGTTTTCCA AAGTGAACAC ACTTGTGTAA CCACCACTCA
47251 GATCAAGATA CAGAGCATTG CTAGCTTCTT GGTACCTCTC TCAGACCTTT
47301 TCCCAGCCCT ACATGCTCAC CTCAACCCAA AAGGCAACCA CTCTCCTGGC
47351 TTCGAATGCC ATAGATCAGT TTTGCCGTGT TTGCCCTTCT TCTTTTCACT
47401 TGTTTTATGG TTTGGGAGCT TCATCATTTT ATTCTGCATA GCAGGAGTTC
47451 ATTTTATTGG CTGAATTGTA TTGTTTAAGT ATTATGAGTA ATGCCATGAA
47501 CATCTCTGCA CATGCCTTTT GCTGCACAAA TGTATGCATT TCTGTCTATT
47551 ATTTGTCTAA GAGTGGAAAT ATTGGGTTAT AGGATTCTTG TTAATAAATA
47601 CTGCCAAAAC GTTTTTGTAG TGATTTTACC AATTTTACCT TCTACCTGTT
47651 GTGCGTGAAA ATTCCAGTTT CTTCTCGTGG GTGCTGACAT GGAGTTTATA
47701 GCAGTATTTT ATTGTGGTTT TAGTTCCTTG ATGACTGAGT CTGAGTACTT
47751 TTTATATTTG AATTGACCAT TTAGATGTCT TTCTTTGTGA TGTGCCGTGC
47801 AAGTATCTAT TCAATTTTTT TGTAGGGTTA CTTTTTAAAA ATATATTGAT
47851 TTGTGGAAGT TATTAATATA GCTTAGTTGT GAGACCTTTG TTAGATATAT
47901 GTATTTTAAA TATCTTCTAC TCTGTGGCTT ACATTTTAT TCTCTGTAGT
47951 ATCTTTTGA GGAACAGAAA GTTTATAATT ATATATTTAT TATAATATAT
48001 ATTGATATAA AGGATCCAGT TCATCAGTCT TTTCTTCTGT GGCTGGTGAT
48051 TTTTGTAGCT AGCTTAAGAA ATCTTGGTCA AATCTACTGT TAGGTATATT
48101 TTCTCTTACC TTCTTGATGC TTTTATTGTT TTTCTTTTCA TGTGTCTATC
48151 TTTAATTGCT TCACTTTTTT TCATATAGAT GTGTTATACC AGTTATTGAA
48201 ATGACCATCA ATTTCTGCCT TGCTTCTGTG TTACCTTTGT TGTACATAAA
48251 TCAAGGGTTT GTGTTTCAAT TAGATTCTCT GCTCTGCCTC AATGGTCTTT
48301 TATCCTTGTC CACAATACTG AAATGTCTTC AATACTTTCA GCCTTATAAA
48351 AAGTCATAAT TTCTGGAGGG TAAGTGATAT TTTTTTAAAA AAATGGTCAT
48401 CAAAATTTTC TTGACTATTG TTGGCACTTT GCATTTCCCAT AGAAGTTTTA
48451 AAATCAATGT TGCGGGTTCT TCCTTCTCCC CACACAGTAA ACTGGCTTGC
48501 ATTTTGATTG GAATTTTAA GTCTTTCAAT CAATTTGGAG AGATTTGGGA
48551 AGTTAATACC TTGTAATCCA TGAACCTCTT AGATTCCCTC ATTTTATTTT
48601 AGATTTTCTT TAATTTCCCT CCAGGTAGTT TGGTAGTTTT ATGTGAAAAG
48651 TCTTGACATC TGTTAATTAG ATTTATTCCT AGGTACTTTG GTTTTTTGAA
48701 TGCACCTATG AATGGCATTG TGTAAGTTT CACTTGTAAT TATTTTATGT
48751 TAGTATAGTC ACGGACTGCA TAACGATGTT TTAGTCAAGG ATGAATGGTA
48801 TATACTACAG TGGCTCTGTA AGATTATAAT GGACCTGAAA AATTCCTATC
48851 ATCCAGTGAC ATCATAACCA TTGTAAAGTA GTAGTGAAT TAGTATTATT
48901 ATTTTAAAT TTGGTGTAGC CTAAGTGAT AGTGTTTACA GTAGAGTATA
48951 GTAATGTCTT GGGCTTCAC ATTTGCTCAG CACATACTCA CTGACTTACC

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FIGURE 3N



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49001 CAGAGCAACT TCCAGTCCTA TAAGCCTCAT TCATGGTAAG TGCCACACA
49051 GGTATAACAT TTTTAACTCT TTTATACTAT ATTTTACTG TACCTTTTCT
49101 TTTTCTATGT TTAGATACAC AAATACTTAC CATTGTGTTA TAGTTACCTA
49151 TGGTACTGAG TATAGTAACA TGCCTTACAG GTTGTAGCC TTGCTGTATA
49201 GTAGGCCATA CCATCTAGAT TTTCATAAGT AGACTCTTTG ATGTTTGCAC
49251 AATGATAAAA TCACATAAAG ACACATCTCT CAGAAATGTAT CCCTGTCATT
49301 AAGCAATGCA TGGCTGTATC TAGAAAAAGT AAAAAAAAAA TTTTTTTTTT
49351 TTTTGTAGAC GGAATCTCAC TTTGTACCCC AGGCTGGAGT GCAGTGGCAC
49401 GATCTTTTGT AATCTTTTAT ACTGTATTTT TACTGTACCT TTTCTTTTTC
49451 TATGTTTAGG TATACAAATA CCATTGTGTT ACGGTTACCT ACAGTATTGA
49501 GTATAGTAAC TTGCTGCACA GGTTTGTAGC TTAGAAGCAA TAGGCTATAC
49551 CATATAGCCT AGATGTATAG TAGGCCATAC CATCTAGATT TGTATAAGTA
49601 TACTCTATAA TGTTTGCACA ATGACAAAAT CGCATAAAGA CACATCTCTT
49651 AGAACGTATC CCTGTCTATTA AGCAACGCAT GTCTGTATCT AGAAGAAGTA
49701 AAAAAAATTT TTTTTTGTAG ACGGAGTCTT GCTTTGTCAC CCAGGCTGGA
49751 GTGCAGTGGC ACTATCTCAG CTCACTGCAA CCTCTGCCCT CCGGGTTCOA
49801 GCAATTCTTG TGCCCTCAGCC TCCCAAGTAG CTTAGTAGGG ACAGGGTTTC
49851 ACTATGTTGG CAAGGCTGGT CATGAACCTC TGACCTCAAG TGATCCACTT
49901 GCTTTGGCCT CCCAATAGAA AAAGTAATTT TTTTGTATT GACTGTGTCT
49951 ACCTACCTTG CCAATGCAC TTATTAATTT TAATAGTGTG GGCCAGGCAC
50001 AGTGGCTTAT ACCTATAACT CCAGCACATT GGGAGGCCAA GGTGGGAGGA
50051 TCCCTTAAGC CCAGGAGCTT GAGACGAGCC TGGGCAACAT AGTGGGACAC
50101 CATCTCTACA GAAAAATTAC AGAATAGCTG AGCGTGGTGG TATGCACCTG
50151 TAGTCCCAGC TACTTGTGAG GCTGAGGTAG GAGGATTACT TGAGTGTGGG
50201 AGGTTGAGGC TATAATGAGC TGAGATTGCA CCACTACACT CCAGACTGGG
50251 TGACAGAGTG AGACCTGTG TCAAAAAAAC CAAAAAAAC AAAATTTTAG
50301 TAGTGTGTAT GTAAGTTCTT TTGAGTTTTT TATCTATCAA TTATGTTATA
50351 GTTTTCTATG TATACATTTC AAATAATGAG TTTTAAATTT TATTTTGTTC
50401 AACTCTACAC CTATTCCTTG TCTTCCTTGA CTTACTATAC TACATAGGAC
50451 CTCTGACAGT ATTTAATAGA AGTGGTAACA ATAGTAATCC TTATCTCATT
50501 CTTGATTTAA TAGAAAGTTT ACAAACGTGT ACTTAATATT AAGAATTTTT
50551 TTTGTTGTAT GCGTGATAAG GAGGTTTGTA TCTATTCCTA GCTTTTAAAA
50601 AATATAAATT AATGATATTT TATCACATTT CTACATTTAT TGAGATAGTC
50651 AATGAACTC TTTATTCAT TAATGGGAAG AATGATGTTG ATTGATTTTT
50701 AAATGTTACA TGAATCTGGC ATTCTGTGAA TAGAGCCAAG TTGTCACAA
50751 TTTGTAATTC TTTTAAATGT ATTGATCTTT TGGCTGATGT TTTGTTAAG
50801 ATATTTGCAC CTATGTTTAT GAGAGATTGA CCTGTAATTT TTTTCTCTG
50851 TAATGTCCCT TTAAGATTTG AGGAGCAAGA TTATGCTACC CTGTGGAATC
50901 AAGTTGGGAA TTTTCTTTC TCTGGAACAA TTTTTFAAAA ATTAATGTCA
50951 TATTCATCCT TAAGTATTTG GTGACATTTA TCAGTGAAGC CATCTGTACT
51001 TAGAATTTTC TCTGTAGGAA AGGTTTTAAT TATAGATTTA ATTTCTTTAA
51051 TATCTATTGA AATATTCAAA TTGTATAGTT TGTTTGTATA TTAGTTTTGG
51101 TAAATTTTTT TCCCCTAGAA ACTTGTTTAT TTTATCTACA TTTCAAATTA
51151 TTTGGCATAA AGTTATTCCT ACTATCCTCT TATCTTTTAA ATGGCAGTAG
51201 GTTTTGTAAAT GATGTCTGCT TTTTCATTCC TAGTATTGGA AATGTGTCTC
51251 TTCTCTCATT TTCAGACAAC CAACCTTTGG CTTTACTGGT TACTTTTTTT
51301 AATTGTGCAT TTGTTTCTT CATTATTTCC CTCCTTCTTT TTTCTTTTAG
51351 GTTTAATTTT TTCTTTTCT AATTTCTTAA GATGAATGCC TCACTGACTG
51401 TCAGTCTTTT TTTTTTTTTA TCTACATTAA GCCTACCACT GTCCCTTCA
51451 GTACTGCAGT AGCAGCATCC TACAGATTTT CATATTATAT TTGTATTATT
51501 ATTCAAGTTGA AAAAAATCAG TTTTCATTGT GATTTTTTTT GAGCCATGAG
51551 TTATTTAGAA ATGAATTAAC TGATTTTCAA ATATTGTGT ATTCTTAGC
51601 ATTTTTTTGT TACTGATTTT GTTATTCATT CTCCTGAGGT CAGAGAACTA
51651 TACTTTATGA TTTCAATCCT TGAGTTACAT GGAGAGTTGC TTTGTGTCCT
51701 AGCATAGGGT CAGTTTTTGGT AGATATTCCA GGTATGCTGG AAAACAGAGT
51751 TATTTTATTA TTTTGATGTT GTTTTTTAAT ATATACCAAT TAGGATAAGT
51801 GAGTTAACTT TTTTTTGGT ATCTTCTGGT ATCTTCTATA TATTTCTTTT
51851 AAAAAATTTG GCTAATAAGG GAAGTATGTT AAAACCTGCA GGCAAGGTCT
51901 GTTCTCCCAT TTAGTTCTGT TTACTTTTGT TTTATGTATT TTGAATTTTG
51951 TTATCAGGCA TGTATTAATT TAGAATTTTG TATATCTCTG GTGAATTGAC
52001 CCTTTTATTA CCCCGAGTGT CTGGTGATGC CTCCTACTTA ATGCCATTTT
52051 GATAGTAGAT ATAGGTGCGC TGTATCCTT CCATGTATAT TTCATTCTGT
52101 GTATATTTGC ATAGTATTCC TTTTATTCCT TTACTTTCAA CCTTTGTATA
52151 TTCTTATATT TCAGATACAT CACTTGATG CAGGGTAAAT TGGGGTTTTA
52201 TTTTTTAAAT CCATCTGCTG TTGTCAATTG TTAATTTCAA GACTTAATA
52251 CATTIATATT TAGGGTAATA TCTTAAATA CTTAGGTTTA ATGTAGTTCC
52301 TTATTTGCC CACTTGATG TTTTTTTTCC TGTTTTTTT TTCATTCTTT
52351 TGGAATAGGC AAGTATTTT ATTATTTTCT CCTCTTCCA TTGTCTTTT
52401 AGTTAAACAT TTTAACTTGG CCTTATGTA ATATCCTATG TTTGTCTCCT
52451 TGGCTTATTA GGGGCTAGTA TGCATTGCAA ACATTGCAAC AGATGTTTAC

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FIGURE 30

52501	TTATTATTG	GGTACATTAA	GTTGTGCTAT	GTTTATTACA	GAATCAGTCT
52551	TTGTACTTTA	CTTTTTTGGG	GACAGGGTCT	CACCTGTAC	CCAAGTTTAC
52601	TGACTGAGTG	CAGCAGCATG	ATGATGGCTC	ACTGCGGTCT	TGACTTCCTG
52651	GGCTCAAACA	GTCAATTGCGT	GTAGCTAGGA	CTATAGGCAC	ATGCCACGAA
52701	GCCTGGCTAA	TTTTTGAAAT	TTTTTTAGAG	ATGAAGACAC	ACAGTGTTCG
52751	CCAGGCTAGT	CTCGGACTCC	TGGATGCAAG	CTCTCGGCC	GTCTCAGCCT
52801	CCCAAAGTGT	TGGGATTACA	AGTGTGAGCC	ACCGTGCCCA	ACTTGTACTT
52851	TACTATTTTT	TAACTTTTGA	AAAATTCCAT	GTTTCTCTTG	CCTTTGTTTT
52901	CCTCCTGTGA	GTTACTATTT	TCTTTCTATG	TTCAGAGGAG	TGGAGATTTT
52951	ATCCAGCTTA	AATTCTGTAG	TTTGTATTAG	AAATAATAGA	GATTTTGTTA
53001	TTTTATAAAT	ATGTTTATAT	TATAATATTA	AATATACTTT	TAAAAACAC
53051	ATATTGCTTG	TGTTTTCTAG	ACCCCTTCCT	TAAATGAAAA	TAATGTATCA
53101	TTTAGTGTCA	GATTTTATGT	TTGCATGATA	TAAAAAATAA	GTGGCAGGAA
53151	AATTACTAGA	CCATTTTCCC	TGTTTCAGTT	TTTCTGTCTC	AGTAGGGTGA
53201	TGTATCTGGT	CCAAATTAGA	AATATTGGCA	AGTATTGCCA	GATACTATCT
53251	GGCATTGAAG	TATTTTGATT	ACATCCATTT	ATGTTAGATA	TTTTAGGAAC
53301	AGCTTAAATT	TTCCAGGCC	ACAAGGTACT	GTTTGATACA	ACATGGCACT
53351	GCATAGATAC	TCCTCAACTT	ATGATGGGGT	TATGTCTCTG	AAAAACTAGT
53401	GAGTCAAAAT	ATGTGTGTGG	CTGACTTGGG	ACTGTAGCTT	GCTGTGGCTG
53451	CCCAGCGTTG	CAGAAAAATT	ACTGAATTCA	TATTGCTTTT	GTACCATTTG
53501	AAAGTGGAAA	ACTCTTTTTT	TTTTGAGACG	GAGTTTGTCT	ATTATTGCC
53551	AGGCTGGAGT	GCAATGGTGC	GATCTCGGCT	CACCGCAGCC	TCTGCCTCCT
53601	GGGTTCAAGC	GATTTCTCTG	CCTCAGCCTC	CCAAGCAGCT	AGGATTACAG
53651	GCATGCACCA	CCACACCCGG	CTAATTTTGT	ATTTTATAGTA	GAGACGTGGT
53701	TTCTCCATGT	TGGTCAGGCT	GGTCTCGAAC	TCTTGATCTC	AGGTGATCCG
53751	CTTGCCTTGG	CCTCCTAAAG	TGGTGGGATT	ACAGGCATGA	GCCACCACAC
53801	CTGGCCATAA	AGTTGAAAAG	TCTTAAGTTG	AATCCTAAGT	CAGGGACTGT
53851	CTTTATCACT	GAATATTTTT	TAATGCTTCT	GCTCCATTTA	ACTAATGAGG
53901	ATGTCGAGTA	GTAATCGAC	CCAATTTATC	ATCGTCTTAG	TCCAGTTTCT
53951	GCTGCTATAA	CAAAATACCA	CATACTTGGT	AATTTACAAA	GAACAGAAAT
54001	TTATTTCTCA	CAGTTCTGGA	GGCTGGAAAG	TCCAAGATCA	AGGTGCTGGC
54051	AGGTTTGGGC	TCAGTCTCTT	TGCATCCAAG	ATGGTGCTT	GAATGCCATA
54101	TTCTCTAAAG	GGGAGGAACG	TTGTGTCTC	ACATAGCAGA	AGGGTAAGAA
54151	AAAGGGCAAG	CCTTTCTTAT	AGCTGTATTA	ATCCATTCAT	GAGGCTGGAG
54201	ACACCTCTCA	TTAGGCCCTCA	CCTCCCATCA	GTGTGTCATT	AGGGATTAAG
54251	TTTTAACATG	AGTTTTGGAG	GAGACAAAAA	CATTCATACC	ATAGCAAACA
54301	TAAACATGTC	AAGAATTGTA	AAGGGTCTGA	GATTTTACTC	TACTTTTACT
54351	CTATTCTAAC	AAATTTTGTG	AGTGGCTGCA	GAAGAGTCAA	AGGAAAGAAT
54401	ATTGCAGCAA	CATAATTAGC	TAGAGTAGCA	GCATTTGCAC	CAGTTCCTGA
54451	GCCTCAGTTT	TCACGGAGTG	ATACAGAGGG	CTACCTGACA	CCTGAGCCTT
54501	TATAGGCTTG	CATCAGAGTA	GGGGAGCCTT	GAATTTGAGA	ACCTGAATCT
54551	TTTATAATGG	ACAGTAAGCA	TGTCTATCCT	TTGCTTTGGA	GAGAGACACT
54601	TTCTTTTCTT	GCATACCAAC	ATCCTTTAAA	AGATAGTCTT	GAACAGAGGC
54651	AGTCAGTGAT	TTTACTCTCA	AGCAGAAGTG	CAAGAGATGT	GAAGAACCAT
54701	CTTTCAGCAT	TTTGGAAAGC	AGATAAAGCA	AGTGGGTATT	TGTAAGATGT
54751	CCTAAAGAAG	TGACTTTGCTG	TCTTTAGGAA	GCAGGGGATC	TATTTTGGGA
54801	GTATGTTTTG	ACTATTCACT	GCTTTTCTT	GGTAGAGAAA	GATACTCAAC
54851	CTCTGTGTTT	TGTGGGTTTT	GTATCTTCTT	TTTTATTAATG	CTTCTGTTTA
54901	TATATAAAAG	TTCAAATAAG	TGAAAAACAA	ATGATGGAGT	GGTATCATTT
54951	TAATTTTAGTA	AAAATGTATT	GAGGTATAGT	GTTTGAACA	AGAAAGGTTA
55001	AAAAATCATG	GGAGCTAGCT	GGTGTTCAG	GATAACTTTA	GATATTCAGA
55051	CTGGATTCTT	GAGAGATCTC	TGAGATTAAA	CTCCTTCAAA	GTGGAATTTT
55101	ATTAAACACT	CTTAACACAA	AGAGCATATA	GTGACTTACT	GTCTTCTAGA
55151	CTAAAGGTGG	TCACAGATCA	AAGGGCTCTA	AATCTCACAG	CCTGATGGAG
55201	AGGACATTCA	CTCTTGTCAC	TGTTTAAATT	TCAAGCAAAT	AGCAAAGACA
55251	AAGAACTTAG	TATCTAACTT	CTCAAGTCAG	CATGGTATCT	TTGAATTTAT
55301	TTTGGATCTC	TCTAAATTTG	ACTTTGTTGA	CTATCTTCTT	GGCTGCTTTA
55351	GTACCTTTTA	TTCTACGTCA	TCCTAGTTTT	TCTTTCCCTT	TAAAAACATC
55401	GTTTCTTTTT	ATGCTATTCA	ATTGATGGGC	TTTCCTAAGA	TTGAGCCTTC
55451	TACACTTATT	CCTCCATCCC	TGACCCCTCA	CTAGCCTCCC	CTTTTAGATC
55501	TCTCCCTTGC	TATAATATCA	AATCTTACAT	GTATGCACAT	CACCTGGAAG
55551	TTTGCTTCAC	TCTTGTATTT	CAAAATCACA	TTTCCAACCTG	CCACCTGAAT
55601	GTTTGCTTGC	AGGTGTTTTT	CCAGTACCTT	AAAACCTTGT	AATCTAGTT
55651	TGAATGTATT	TACCAAAAGG	GCAGGGGCAA	AAGCATGTTT	TAATTTTAAT
55701	ATTTTACTCT	TTTAAAAAGAA	GTTCCCAAAA	CAAAATATTT	TGATAAATCT
55751	TTTTGGCTTT	TTTTATGGAT	GTTGTTTTGT	AAATTTCTATT	TTATATTTGT
55801	AAATAATGCT	TTCTCATATT	AAGTATTTGT	CATATTTTCA	TTGCCAAAAC
55851	TAAGTGCTTG	GATTTTTTACA	TTTATTTCTC	ACATTTCTTC	ACCTCTCTTC
55901	CAACCTCTCA	TCCCTCCCCC	TACAAGGACA	AAATGTTTTA	AATGCTGTAA
55951	TCTTGCATGG	GGTTTGGGT	TTTTAATATT	TTTATTGGTG	ATAATTCGTG

FIGURE 3P

56001 CACAGGATCC TTAGGGTGTG ACTTTTCCAG CCAGAAACCT CTGTGGCCGG  
56051 TGGCACCTCT GCCCGAGTTA TATCCTCGGG CCCACTGGGC TTGTTCTGCG  
56101 CACTTGGTCC AGCAGGCTGT ACTTGGCTTG TGCTATTGAC CTGGATCCTA  
56151 CACCTGCCAA GGGTGAGCCA GGCGCAGAGC AGTGAAGGGG GTGTGAGTGA  
56201 GCCCGAGGTC CGGCCACTGC ACACAGCCAG GCATGCTGGC TGCAGTGGAG  
56251 TGGACAGCCC CAGGTGCAGG CACAGGCACC GGCTCTGTGT GAGGATGTGG  
56301 CTGGACCAAG CATACCACAA GTGTTTTCCA CCGTGGGCAC CAGGTAACGT  
56351 GGTGGTACCT GGAAGCTTGG AGATGTTGGA AACAGCAGAG CCCCAGAGAG  
56401 AGTGTACACAG CTCTGGTATC ACAGCTCTGA TCACAGCCCT TGCATCTGGG  
56451 CTCCCCAGAG GGCCACAGCT CCTCTTCTTC TCATTGCCCA AAATGTGGTG  
56501 ACCAGTGGGC GTGTTTCAGT CCTGTTTGTG TTACAGCTCT TTCAGTCTTG  
56551 CCATTTGGAA GGTTCAGT TCTTGTCCAG CCTTTAGGAA GAATGAGGTA  
56601 TGTGGACAGC TGGAGGGTGA GCAAGGCAGA GAGGAGCTTC ATTGAGCAAG  
56651 AGAACAGCTC TCAGGAGACC TGAAGTGGGT AGGTCTTCT GCCATCAGGT  
56701 CGTCTGATG AGCGTCCAGC TCTCAGCAGA GAGGATACCT GGAGGGGGTA  
56751 CTGCTGTGCC ACAGGCAGGC CATCCTCACA AATGTCTAGC TTTCCGAGA  
56801 GAGGACACCT GGAGTGGGTA GCTCCTTTCT GCAGGTAGGT CATCCTGATG  
56851 AGTGTCTGCT TGTCAGTGGG GAGGAGACCC AGAGTGGGTA GCTTCTTTCT  
56901 GTAGGCAGGT TGTCCCAGTG CATGTCCAGC TCTCAGTGGG GAGGAGACCA  
56951 GAATGGGTAG CTCCTATCTG GCATCCCAGC TAGTGTCCAG TTCTCAGCG  
57001 AGAGGAGACC CAGAGTGAGT AGCTCCTGTC CTCAAGCTGG TCAGCCTGAT  
57051 GAGTGTCCAG CTCTCAGCAG AGAGGAGACC TGGAGTGGGT GGCTCCTTTC  
57101 TGCAAGCAGG TTGCCCAAC GAGTGTCTAC TTCTCAGCGG AGAGGAGACC  
57151 CGGAGTGGGT AGCTCCTTTC CATAGGCAGG GTGTCCAGT GAATGTCTG  
57201 CTCTTGTGGT TGAGGAGACC CAGGGTGGGT AGCTCCTTCT CACAGCTGGT  
57251 AGTCTGACA TCCCAGTGAG TCTGGCTGAG TCGGGTTTTT ATGGGCTTCA  
57301 GAAGGGAGGA AGTGCACTGT GATTGGTCCA TGGGTGGCCA TGGGCAGGCC  
57351 CAGAAAAAGC ACCATAAGTT CTGGGTCTCA GCTGCAGACT CTACCCAGCT  
57401 CTGACAGCCT GCCCTCCATG CTTCAAGCTG TCCCTGGCTT AAAGTGGGG  
57451 CTTCAACAGG GACTCACTCC TTTCTGCCCA GGAGCCTCTC TGCCTCCTGC  
57501 TGCCATCAAT CATGTCTGCC ATGGTGCTGG GGCTGTTCAT GCTGAGGGGC  
57551 GCTTGCAGGA CTGCGCCAAG ACACCCCTCAG CCTCCCTCAC ATACTCATTG  
57601 GCACCCAAAG TCTGGAGGGG ACCAAGGTGG AAGGGAGCTG GACTGTGAGT  
57651 CCACCTTGA GCACCTGAAC ACCTAGGTGG GTCATGACAG TGGCTTGGCT  
57701 CAGCCTTAAC TTTGGTCTGA AATCAGAGCA GGCAAAAAGT TTTTCTGGGA  
57751 CTGGGGAGAG GCCAGGCAGT AGAAGCAGGC ACTTCGGAGC CTGTGGGGC  
57801 AGGGGGTGCT TCCTGGGTTC TCGAGAGTGG AGGGATACCT GGGTCCACAG  
57851 CCATGGCTGG GCAGCTGCAG CTGTGCCTGG GTGAGTGGGG CTCACACCCC  
57901 ACCAAGCTGG AAAAGAGCAG GGCTCCTGCC TGTTCACAGC TCCCACTGGC  
57951 TTCGTGGAGT ATGCAGCCCT GGCCAGGCTC CCCCCACTGC AGCCAGTGTG  
58001 TTCACTGTTG CCACTCCAGA TGGGCCACCG GAGCCATCAA TTCAGTCTGT  
58051 ATTTATGAAG GAAAAGACAA ATCTTGTGTT ACTTTCCTCT CTTTATAGGT  
58101 CTCTGTGCCT TGCGGAGAAT CCTGAAAAAA CAGCCTAACCT TCCCTGATGT  
58151 CAAGGTGGCT GGACTGGTGA AGATTACTCT GAAGGATTTT TTGCAGGCAA  
58201 TGAATGATAT CAGACCCAGT GCCATGAGGG AAATAGCAAT TGATGTCCCA  
58251 AATGTAAGTC ATTTATGTCC CACACTAGCT ACACGTGTTG AATTAAACTC  
58301 TGAAAAAAT TTAGAGTTCA GGGAGACTGA CTTCTAGGC TAAACTTTAA  
58351 AAAAAATTTT TTCTTAATTG AAAGTTTTAT TGAGATAGCT GTAAATTGAG  
58401 TGCAGTTATA CGAAGTAATG TAGGGAGATT CTGTGTATCC TATACCCAGT  
58451 TTCTCCAGT GGCAACATTT TGCAAAACTG AAGTACAGGC TGGGTGCACT  
58501 GGCTCATGGC TGCAATCCCA GCACTTTGGG AGGCTGAGGT GGGCGGATCA  
58551 CTTGAGCCCA GGAGTTTGAG ACCAGCCTGG TTAACATGGT AAAACCCCAT  
58601 CTCTACAAAA AGTACAAATT AGTTGAGTGT GGTGGTGTAC ACCTGTAGTC  
58651 CCAGCTACAG CTGAGGTGGG AGGATCATCT GAGCCCTGGG GAATGTTGAG  
58701 GCTGCAGTGA GCCATGGTTG TGCCACTGCA CTTACAGCTG GGTGACAGAG  
58751 CGAGACCTG TCTCAAAAAA AAAAAACAAA ACACCCAAAA AACTATATTA  
58801 CAATACTAAA ACCAGGATAC CCCTATTGAT ACAATCCATT GATCTTACTC  
58851 ATATTTTTTC AGTTTTACTT GTGTGTATGT GTTTATTTAG TTTTATACAA  
58901 TTTTATCTCA TGAAAAGGTT TGCGTATTCA TCACAGATAC TAAGTAATTG  
58951 CATCACCAAA AAGATCCCTC ATGTTGTCTT TTATAATCAC ACCCACCTCA  
59001 TTCTCCCTCT CATTTCTAAA TTTTATTTTC AGAACCTTTA TATAAATGGA  
59051 ATCATACTGT ATACAACCTT TTGGAATTAG CTTTTTCAC ATATGAGTAA  
59101 GATCTTTTGT CTTTCTGTGT ACCTTAACTT ATTTGAGTAG GCATAATGTT  
59151 CCCAGATTG ATCCATGTTA TTATAAATGA CAGTATTTTC TTCTTTTAT  
59201 AAGGCCAAAT AATATTCCAT TATGCCACAT TTCTTTGTAC CATTATACCA  
59251 CATTTTCTTT CTCTGTTTAT CTGTTGAGGG ACACCTAGAT TGATTCCCTA  
59301 TCTTGAGTGT TGTGAATAAT GCTGTAGTGA ACATGAGAGT GCAGATATCG  
59351 CTTTGAGATA CTTTATTTC TTTTGATATG TACCCAGTAG TAGGATTGCT  
59401 GAATCTTTTG GTAACTTAAT ATTTTGAGGA ACCACCATAC CATTTTTCCT  
59451 TAATGTCTGT ACCACTTTAC ATTCCACCA ACAGTGATCA AGGGTTTCTT

FIGURE 3Q

59501 TTCTCCATA TCCTTGGCAA CACTTATCTT TCATCTTTTT GGTAAATGGCC  
59551 TTCCTAACAG ATGTGAGGTG ATATCTCATT ATAGTTTTGA TTGTATTAC  
59601 CCTGATGATT AGTGGTATTG AACATATTTT CATATACCAG TTAGCCATTT  
59651 GTACGTCTTC TTTTAACAAA TGTTACTCAG ATCCTTTGCC CATTTTAAAT  
59701 CAGATTGTTT GTTTTTTTTT GCTTTTGAGT TGTTTGAGTT TCTTAATATA  
59751 TATTTTAGTA TTTTGATAG CAGCCCCTTA CCTCATATAT GGTTCACACA  
59801 TATTTTCTCC CATTCCATAG GTTGTCTCTT TACTCTGTTT CCTTTGCTGT  
59851 GCAGAACTTT CTGGTTTGAT GCAGTCTGT TGTTCAGTTT TTGTTTTCT  
59901 TGCTCTGCT TTTGGAGTGT ATCCAAAAAT TCATTGCCCT GGACCCATGC  
59951 CATAAGGCTT TTCCTTATGT TTTCTTCTAG TAGTTTTACA GTTCTAGATA  
60001 TTATGTTTAA ATATTTAATC CATTTTGAAC TGATTTTTTG TATGTGGTGT  
60051 GAGAAGACTG GCCAGTTTCA TGTGTGGACA TACAGTTTAT CATATGGATA  
60101 TCATGTGGAT ATACAGTTTT CCTGACACCA TTTTTTAAAG AGATTGTGCT  
60151 TTGCTCATTG CGTGTCTTC GGTACCTTTG TAGATCAATT GACTGTACAT  
60201 GCGTGGATT ATTCTGGGC TCTCTATTCT GTTTCATTTA TTTATATGTC  
60251 TGTTTTTATG CCAGTATATT GCTGTCTTGA TTATCATAGC TTTGTAGTAT  
60301 ATTTTGAAT CAGATAGTGT GATGCCTACA GCTTTTTTTT TTTTTTTGTC  
60351 TTGAGATTAC TTTGACTATA TGGTGACTTT TATGTTTCCT TATGAATTTT  
60401 AGGGTTGCTT TTCATATTTT AGAGAAAAAT GCCATTGGAA TTTTGGTAGT  
60451 GGTACATTA AATCTGTAGA CAATTTTGGG TAGTATGAAT ATTTAATAG  
60501 TGTAAATTTT TAAATTCAT GAACATTAGA CATTATTCTA TGTATTGTG  
60551 TCTTCTATTT CATCAGTATT TTATAGTTTT CAGTGTACAG GTCTTTCACC  
60601 GTCTTGGTTA AGTTTTTTCG GTATATTTAA AAAATACTAT TGTAAATGGG  
60651 ATTTTCTTTT TTTAATTTTT TGGATAGTTG TTAGAGTATA GAAATGCTAC  
60701 TGACTTTTGT TGTCGATTTT GTATCCTGCC AATTTACTGA ATTCATTTAT  
60751 TGGTTTTAAT CTTTTTTTTT TGGTGAATA TTTAGGGTTT CCTTTATATA  
60801 AGATTATGTC ATCTGCAAAC AGACAATTTT TTTCTTCTTT TTCAATTCGG  
60851 ATGCTTTTTA TTTCTTTTTT TTGCCAATT TCCTTGGCTA TGACTTTCAG  
60901 TACTATATTA AATAGAAGTT GCGAGAGTGA GCATTTTGTG TTGCTCTTCA  
60951 TCGTAGAGGA AAAGTTTTTA GCTTTTCATT GTTGGGTATG ATGTTAGCCG  
61001 TGAGCTTGTC ATACATATAG CGTTATGATG TTGAGATACA TTCTGTCTAA  
61051 TGTATTGAGA GTGTTTATCA TGAAAGGATG TTGAATTTTG TCAAATGCCT  
61101 TTTCTGTATC TATTGATATG ATTTTATGAT TTTTATCTTT CGTCCTTTTA  
61151 AGGTGGCGTA TCATGTTTAT TGATTGTCAT ATGTTGAACC AGCAGCCTTG  
61201 CATCCTAGGG ATGAATCTCA TTGGATCATG GTGTATGATC CTTTTAATGT  
61251 GCTATTGAAT TTGGTTTGCA AATATTTTGT TGAGAATATT TCCATCTATG  
61301 TTCACCAAGG ATATTGGCCT GTAATTTTCT ATTCTTACAG CATTCTTGTA  
61351 TCACATTAAT GCTGGCCTCA TAAAGTGAGT TTGGAAGTGT TCCTTCTCT  
61401 TCAGTTTATG GGAAGTTTTG TGAATTCATC TAAGAATTTA AAGAAGTGAT  
61451 GCTAATGCTT GAGAAGCATA ACTTCTCGGG TCTTGGAGTT TTCTTTGTTA  
61501 GGGAGCTTTT TGATTATTGG TTTATTCCCC TCATCTATTA TTGGCCCTGT  
61551 CAGATTTTCT TTATGATTCA TTTTGGTAG GTTGTATGTT TCTGGGAATT  
61601 TCTTTCTTTC TCTTGGTTG GCCAAATTGT TGCCATGTAA TTGTTCATAT  
61651 TAGTCTCTTA TGATTGTATT TTTGTGGTAT CAATTGTAGT GTCTCCTGTT  
61701 TCATTTCTCA GTTTATTTAC TTTAATCTTC TTCTTTTTTT TTTTTTTTTT  
61751 TTTTGTAGAC GGAGTCTCGC TCTGTTACCC AGGCTGGAGT GCAATGGCAC  
61801 CATCTTGGCT CATGCAACC TCCGCTCCT GGGTTCAAGT GATTCTCCTG  
61851 CCTCAACCTC CTAGTAGCT GGGATTACAG GCACCCGCCA CAACGCCAG  
61901 CTAATTTTTG TATTTTAGT AGAGACGGGG TTTCACCATG TTGGTCAGGC  
61951 TGGTCTCAAA CTCCTGACCT CATGATCCGC CCACCTCAGC CTCCCAAAGT  
62001 GCTAGGATTA CAGGTGTGAG CACCACGCCC AGCCTACTTT AATCTTCTTT  
62051 CTTTTTTTTA TAGTAGTCTA GGCAAAGATT TGTCAATTTT GCTTATCTTT  
62101 TGAAAAAACA ACTAATGTTG ATCTTTTTAT ATTCTTACAT TGATCTTTTA  
62151 AATTATTTTT CTAGTCTCCA TTTTATTTAT TTCTGCTCTG ATCTTTAGTA  
62201 TTTCTTCTCT TCTGCTAACT CTGAACCTAT TTTGTTCTTT TTCTATTCT  
62251 TTGTTGTGTA AAATTAGGTT GTTCATTTGA GATATTTCTT TTTTCTTAAT  
62301 ATAGGTATTT ATTGCTATAA ACTTTCTCTA TAGAACTACT TTTGCTGTAT  
62351 CAAAGTTTTG GTATGTTGTG TTTCTATTTT CATTTGTCTT AAGACTTTTT  
62401 TTTATTTTTT TTTTGATTTT ATCTTTGACC CATTGATTGT TCAGGAGTAT  
62451 GTTGTTTAAT TTCCAGATAT TTGTGGATTT TCCAATTTTT TTTTCTGTT  
62501 ATTCTTTTCT GGTTTGTATG ATTATGGACA GAAAAGATAC GTGATATGAT  
62551 TTTAGTCTTC TTAAGCTTTT TAGACTTGT TTTGTTGCTA AGATATGATC  
62601 TATCCTTCAG AATGTGTCAT GTGCACTTGA AAAGAATATG TATTTGAGAG  
62651 CCCCATAGAT GGTTCACATC ACAGGACTCT GTACGGACAA CCCCCAGTAC  
62701 CAACCCAGAG CTGGGTAGAC TTGCTGGGTG GCTAGACCTA GAAGACAGAC  
62751 AACAACTACT CGAGTTAGGC TCACAGGAAG ACACATCCAT AGGAAAAGTG  
62801 GGGAGAGTAC TACATCAACG GAATATCCCA TGGGACAAAG GGATTGGAAC  
62851 AACAACTTTC AGCCCTAGAC CTTCTTCTGA CAGAGCCTAC CCAATGAGAA  
62901 AGAGCCAGAA AACCAACCTT GGTAAATGTC CAAAACAAGG CTCTTCAACA  
62951 CCCCTCAAAA ATCACACTAG GGATGTGTTT CCATTGTGTT CGTGTATTTT

FIGURE 3R

63001	TTTCAGTTGT	GTTTTGTAGT	TTTCCTTGTA	GAGGTCTTTC	GACTCCTTGG
63051	TTAGGTGTAT	TCCTAAGTAT	TTTTTTTTGC	AGCTATTGTA	AAAGGGTTGA
63101	GTTATTGATT	TGATACTCTG	CTTGGTTGCT	GTTGGTGTAT	AGAAAGCTAC
63151	TGATTTGTAT	ACATTAGTCT	TGTATCTGGA	AACTTTGCTG	AATGCTTTCA
63201	ACAGTTCTAG	GAGCTTTACT	CCTAAGGAGG	AGTCCTTAGG	GTTTTCAAGG
63251	TAAATGATCA	TATGCTCAGC	AGTGACAGTT	TTTCCTCTTT	ACTGATTTGG
63301	ATGCCCTTCA	TTTCTTTCTA	TTGTCTGATT	GCTCTGGCTA	GGACTTCCAA
63351	TACTATGATG	AAGAGGAGTG	GTGAGAGTGA	GCATCCTTGT	CTTGTCCAG
63401	TTCTCAGAGG	AATGTTTTCA	ACTTTTCCCC	CATTTCAGTAT	TACATTGGCT
63451	GTGGGTTTGT	CATAGATGGC	TTTTATTACA	TTAAGGTATG	TCCCATGTAT
63501	ACCAGTTTTG	CTGACAGTTT	TAATCATAAA	GGGATGCTGA	ATTTTGTGTA
63551	GTACTTTTTT	TGCATCTGTT	GAGATGATTG	TGTGATTGTG	TTTTTAATTTC
63601	TGTTTATGTG	GTGTATCACA	TTTATTGACT	TGCATATGTT	AAACCATCCC
63651	TGCATCCCTG	GTATGAAACC	CACTTGATCA	TGGTGGATTA	TCTTTTTAGT
63701	ATGTTGTTGG	ATTGAGTTAG	CTAGTAGTTT	TTTAAGTAAG	GATTTTAGCT
63751	TGAGTTGTTA	TCAAGGATAT	TGGTCTGTAG	TTTTCTTTTT	TTGGTTATAT
63801	CCTTTTCTGG	TTTTGGTAGT	AGGGTGATGC	TGGCTTCATA	AAATGACTTA
63851	GGGAGGGTTC	CTTCTTTCTC	TGTCTTGTGG	AGTAGTGTCA	AAAGGATTGA
63901	AGGATTGGTA	CCAGTTCTTC	TTTGAATGTC	TAGTAGAATT	CCGCTGTGAA
63951	TCCATCTAGT	CTTGGACTTC	TTTTTGTGTT	AAAATTTTTT	TTTTCTTTTT
64001	TTTTTTTTTG	AGACGGAGTA	GTTTTGCTCT	TGTTGACCAG	ACTGGAGTGC
64051	AATGGTGCAA	TCTCGGCTCA	TGCAACCTC	TGCCCTCTCAG	ATTCAAGCGA
64101	TTCTCCTCCC	TCAGCCTCCC	AAGTAGCTGG	GTGGGATTAT	AAGCATGTGC
64151	CATCACGCCCT	GGCTAATTTT	GTATTTTATG	TAGAGATGGG	GTTTCTCCAT
64201	GTTGGTCAGG	CTTGTCTCTA	ACTCTTGACC	TCAAGTGATC	CACCGGCTTC
64251	GGCCTCTGAA	TGTGCTGGGA	TTATAGGTGT	GAGCCACCGT	GCCTGGCTGG
64301	TAATTTTTAA	ATTACCATTT	CAATCTCACT	GGTTGTTATT	GGTCTGTTCA
64351	GGGTACTAAT	TCTTCTGAT	TTAAGCTAGG	AGGGTTGTAT	TTTTCCAGGA
64401	ATTTATTCAT	CTCTTCTAGG	TTTTCTAATT	TATGTGCATA	CAGGTGTTCA
64451	TAGTAGCCTT	GAATGATCTT	TTGTATTICA	GTGGTATCAG	TTGTAATATC
64501	TCCTGTTTTG	TTTCTTAGTG	AGGTATTATA	GATTTTCTCT	CTTCTTTTCT
64551	TGGTTAATCT	TTCTAATTGT	CTATTTTATC	TTTTCAAAGA	ATCAGCTTTT
64601	TGTTTCATTT	ATCTTTTGTA	TTTTTTTTTT	TCAATTTTAT	TTCTTTCTGC
64651	TCIGATCTTG	GTAAATTCCT	TTCTTCTGCT	TGGTTTGGGG	TTCCGGTTTGT
64701	TCTTGTCTCT	CTAATTCCTT	GAGGTGTGAC	CTTAGAATGT	CAGTTTGTGC
64751	TCTTTCAGAC	CTTCCAATGT	AGGTGCTTTG	GGCTATGAAC	TTTCCCTCTA
64801	GCACTGCCTT	TGCTGTATCC	CAGAGGTTTT	GATAGACTGT	ATCATTATTG
64851	TCATTTCAGT	CGAAGAATTT	TTTAATTTTC	ATCTTGATTT	TGTTTGTGAC
64901	CCAGCGCTCA	TTCAGGAGCA	GGTTATTTAA	TTTTCATGTA	TTTGCATGGT
64951	TCTGAAGGTT	CCTTTTGGAG	TGCGTTTCCA	ATTTTGTCCC	ATGGTGGTCT
65001	GAGAGAGTGC	TTGATATAAT	TTCAATTTTC	TTAAATTTAT	TGAGGCTCGT
65051	TTTATGGCCT	ATCACGTGGT	CTGTTTGGGA	GAAAGTTCCA	TGTGCTGTTG
65101	AATAGAAGGT	GTATTTCTGA	ATTGTTGGAT	GAAATGTTCT	GTGTATATCA
65151	GTTAAGTCCA	TTTGTTCCAA	GGTATAGTTG	AAATCCATGG	TTTCTTTGTT
65201	GACTTTCCGT	CTTGATGACC	TGTCTAGTGC	TGTCAGTGGG	GTAAGTGAAGT
65251	CCCGTACTAT	TATTGTGTTG	CTGTCTATCT	CATTTCCTAG	GTCCTCTAGT
65301	AATTGTTTTA	TACATTTGGG	AACTCCAATG	TTAGGTGCAT	ATTATTTTAA
65351	GTGAAGTAAC	TCAGGAATGG	AAAAACAAAC	ATCATATGTT	CTCACTGATA
65401	TGTGGGAGCT	AAGGTATGAG	GACACAAAGT	CATAAGAATA	TAATGGACTT
65451	CAGGGACTTG	GCGGGAAGAA	TGGGAGGGGG	GTGAGGGATA	AAAGACTACA
65501	AATAAGGTGC	AGTGTAACCT	GCTCGGGTGA	TGACTGCACC	AAAATGTCAC
65551	AAATCACCAC	TAAGGAACCT	ACTCATGTAA	CCAAATACCA	CCTGTACCCC
65601	CAATAACTTG	TGGAAAAATT	AAAAATACTA	ATAATTAAAA	AAAGAGAAAA
65651	TAAGGTGTAT	TCTGCGGCCA	TTGGTTGTAG	TGTTCTGTAT	ATGCTCTGTA
65701	GGTCCATTTA	GTCTATAGTG	CTCTTCAAGT	CTGCTGTTTC	CTTATTGATT
65751	TTCTATCTTG	ATGATTTGCC	ATTGTTGAAA	GTGGGTATT	GAAGTCTCTT
65801	ACTGTTCTCG	TATAGCTGTA	TGTTACTCCC	TTCCGGTTCTT	TTAAAATTTT
65851	CTTTATGTAT	TTAGATGCTC	CAGTGTTTCA	TGCATATATA	TTTACAATCA
65901	CTATATCCAG	TTAATGAATT	GACTCTTATC	ATTATATGAT	GACCTTGCTT
65951	TTTTTTTGACA	GTTTTTGACT	TAGTCTATTT	TGTTCTAATAT	AAGTATAGCC
66001	ACCCCTGCTC	TATTTTGATT	GCTATTTGCA	TGAAAATTGC	TATGAAAATAG
66051	CATGATTGCT	ATTTATGCAA	ATAGCAATCA	AAATAGAGCT	GAAGACTCTA
66101	TTTTGAAAGT	CTTCAGACTC	TTTAAGAACCA	CATATAGAAT	ACTTTCACCT
66151	CAGCTTTAAC	AATGCATATA	GAATACTTTA	AATTAATAATC	TTTAAATTTAG
66201	AGTCTCTTAT	GGGTAGCATA	ATTTTGAATC	TTGTTGTTTA	ATCCATTTCAG
66251	CCACTCTGTC	TTTTGACTGG	AGAATTTAAT	GTTCCATTGG	AAGTAATTTAT
66301	TGATAGGTAA	GGGCTTACTA	GAGCTATTTT	ATTGTTTCTT	GTTTTGTAGT
66351	ACCTTTGTTT	CTTTCTTCTT	CTCTTGCTGT	CTTCTTTTGT	GATGTGATTT
66401	TTTTTTTTTA	GTGATATTCT	TTGATTCTTT	TCTCTTTATC	CTTTGTGTAT
66451	CTATTACATG	ATTTTTCTTT	GTGATTACTC	TGAGGCTTAC	ATAAACACCC

FIGURE 3S

66501 TTCTAGTTGA AACAGTCTAT TTTAAGCTGT TAATAACTTA ACATTGGTCC  
66551 CACACACAGA CTCTACTCTT TAATTTCTCC TGCCCCCATA TTTTATGTTA  
66601 CTGATGTCAC GTTTTGATC TTTTATATGT TGTGTATCCC CTAACAAATT  
66651 ATTGTGGCTA TTGCTATTG TAATTTTTTT TTAACTTTTA CACTGTAGC  
66701 TAAAAATGAT TTATGTGCTA GACTATACT ATTACAGTAT TCTGGGTTTG  
66751 TATTCCTACC TTTACAGGGG GTTTGTACT TTCATATGCT TTCATATTAG  
66801 TTAGCATCCT TTCATTTTAA CTTGATGAAC TGGCTCTAGT GGTGCTGAAT  
66851 ACCCACATTT TTATTTGGTT ATGTCTTTAT TGCTCTCTTA TTTTTTAAGG  
66901 CCAGCCTTTT CTGGTATAGT ATTCTTTGTT GGCACTTTTT TTTTCCCTT  
66951 TTTCTTTTAG CACTTTCAAT ATATCATCTT ACTCTCTCCT GGCCCGCAAT  
67001 GGATTGTCTG AGAAATCTGG TCGTAGTCTG ATGATGGTTT CCTTATTTGT  
67051 AATGAGTTGC TTTTTCTTG CTGCTTTCAA AATTTGTTGA CTTTTGAGAA  
67101 TATGATTATA ACATATCTTG GTGAAGCTCT CTTTGTTTTN NNNNNNNNNN  
67151 NNNNNNNNNC CAAAATACAC TAAACAAAT TATATTCATT TCCCTCTCCA  
67201 GATTTGGGAA ATTTCTGTC ATTCTTTCTT TTTTTTTTTT TTTGAGACAG  
67251 AATCTCACTC TGCACCCAGG CTGGAGGGTA GTAGTGTGAT CTTGGCTCAC  
67301 TGCAACCTCT GACTCCCTGG TTCAAGGGAT TCTCCTGCCT CAGCCTCCTG  
67351 AGTAGCTGGC ATTACAGGCA CACGCCACCA CACCAAGCTA ATTTCTGTAT  
67401 TTTTAGTAGA GACGGAGTTT CATATGTGGC CAGGATGGTC TTGATTTCTT  
67451 GACCTCGTGA TCCACCCGCC TCAGCCTCCT AAAGTGCTGG GGTACAGGC  
67501 CTGAGCCACC GTGCCCAGCC CATTATTTCT TTAAGTAAAT TTTCTGCCCC  
67551 TTTCTCTGCT TCTTCTGGGT CTGTTGTAAT GTGTACACTG GTTCGCTTAA  
67601 TGTGCGGTTC TAAGTCCCTG TTAGGCTTTT TTCACTCTTC ATTTCTTTTT  
67651 CTTTTTGTTT TTGTGACAAG ATAATTTTCA AAGATCTGTG TTTGAGTTTG  
67701 CTGATCTTTC TGTGTATTG TCTGCTGTG AAGTTTTCCA TTGAATATTT  
67751 AATTCACCTA TTGAATCTT CAGTTCAGTA ATTTCTGTTT GGTCTTTTTT  
67801 TATACTCTCT ATCTCTTTCT TGAATCTTTC ATTTTTTTCA TGCATTGTTT  
67851 TCCTGGATTG ATGTTATTTG AATTCCTTGT TAGCTAAGAT GATTATTTTT  
67901 TATACTTATC TGGCAGTTTA TGTATCATCA GTCGTTTAGT GTCGCTACT  
67951 GGTGCTTAAT TTTGTTCTT TGGTGTCTG TTTCTCTAAT TATTAGTGAT  
68001 TTTTGTGGAC TTGTGTATT GTCTGTGCAT GTGAAAAAGT AAACAACACT  
68051 TCTTGTCTTT ACAGATTGGT TTCTGTAGGG AAAGCCCTTC ACTAGTCAGC  
68101 TTGTCTAGTA GTTCTTGGTA GGCTGTCTTG CTGCTGGAGT CCTTGGGTAT  
68151 CTGTTGTTGT TTTCTGGGTC AGCAGGTGGA TGGTCTTGGT GTCTAGGTCC  
68201 AAGGAGGGCA GTCTTAGTGC TGGGATGGGG CTGGAGCCTG AGGCCACAGG  
68251 GACAGTTCTG GAGCCTCTGT CCACTGGGGC TGACCTGGAG CCTGTGTCTA  
68301 TGGGGGTGAT CCTGAAGGCT GAGTTCATGG ATGCCACCTG GCACTGAGGT  
68351 GGGCCTTGAA TTCAGGACCA TAGTGGTGGG TCTAGAGCCT GAGACCAGCC  
68401 TGGGTCTACA GAGGCTGGT CGGAATTTGG GGCTGCAGGT CCAAGCCTGG  
68451 CTCTTGTTGA GGCCTAGAGC CTAAGTCTGC AGGGATCCAT CCTGGGCTGT  
68501 GGGGGCTGAC CTTGGGCTGG GATAGGGCAA GTACTGGAAT CTGTGGGGAG  
68551 AGCTGGATGC TTATGTATC CTCTTTCCAT GTGGACAGTA TTTCTCTCCA  
68601 CATTGTGCTG CCAGAGGTTG GGGGTGGGAT GAAGCATTTA GTGAGAACT  
68651 TTACTTCTTA GATTCTTCAA TGCATGTTTT CTTATTTATT TATTATTTTT  
68701 TGAGACGAAA TCTCTCTTTG TTGCCCAGGC TAGAGTGCAG TGGTGGGACA  
68751 CGGCTCACTG CAGCTTCAGT CTCCTGAGTT TAGTTGATCC TCCCACCTCA  
68801 GTCACCTGAA TAGCTAGGAC TACAGGTGTA CGCCACCACA CCCAGCTAAT  
68851 TTTTTGTTTT ACTTTATTTT TTGTAGACGT GGGTTTTTCT TGTGTTGCC  
68901 AGAGTAGTCA TGAATTCCTA GGCTCAAGCA GTCTTCTCAC CTGGGCATCC  
68951 CAAATTGCCG GGATTACAGA TGTGAGCTAC TGTGCCTGGC CTGTTTCCCT  
69001 ATTTTGTGTT TCCACCCAGG TACTCTAATC TCTCACTTGG ATTCCTTAGC  
69051 TGTGTGAAG GTATTTTCAA GTGTGGGCAA TTGTTCAAGC TGATATTTCT  
69101 GTGAGGAAAG AGCAGTAGAA AACTCCTATT CTGCCACCTT TCCATCATCA  
69151 GTTTCATCAC AGTTGTACTC TTCTTTGCAA AAACCTACC ATTAGAATTA  
69201 TTTGAAACT TAGAGCCTTG TTAGAGAGTC TGGCCTAGTT GTATCCTTTA  
69251 CCTCACTGTG TATAGGCGTT TCAGTATCCA TAGTTCTCTT GGTCAATTAAC  
69301 TAATGTTTTT AAATTGTTAG CTAAAAATAA AACAAAAAAC AAAACAAAGG  
69351 AAATAAAAT GATATTAGAT AAATGAAGTA GACAATGTGG AATGATAAGG  
69401 ATTTGTTTTT AATTTTTTTT TTTTAAAGAG GCAGGAGCTC TCTCTGTCTT  
69451 CCAGGCTGGA GTGCAATGGT GCAGTCTTAG CTCACTTCAC TGTAGCGTCA  
69501 AATTTCTCTG CTCAAAGGAT CCTCCTGACT CAGCCTTCTG AGCAGTTGGA  
69551 ATAGCAGGCA CATGCCATTG CACCTATTA AATTTTTTAT TTTTGTAGA  
69601 GACGAGGTCT TGCTTTGTTG CGCAGACTGG TCTGGAATC GTGGCTTCAA  
69651 ATGATCCTCC TGCCCTCAGCC TCCCAAAGTG CTAAAAATGC CGGCGCAAGC  
69701 CACCATGCTG GACCTGTTTT CCCTTTTAAA AGTGACTATA TTCCTCGAAC  
69751 AATGTGTTTT GTGGTCATAT AAGTTTTGGG ATTTGTTGGT TAAATAAAAC  
69801 CAATAGTTTC TTTCTGCTG GACTCCTCAG AGTCTTTTAA TATGCAAATA  
69851 TTTATCATTA TGAAGTGATC AAAAGGATTT CTTATGGAAT CTAGTTGCC  
69901 ATGGCTTGGG GAGCAGCGAC TTTTGTATT TTGCAATGTG AATGCAATAA  
69951 ATGACCACAA GTTCTTTCCA TCACGTGTGT TTTGCCCTT TGTGTGAGT

FIGURE 3T



70001	TTTGTA	CTCC	TATGATA	AAAA	GAAATG	GAAAT	CAGT	TTTTG	CG
70051	TCTGTG	CCTG	GCCCTG	TGTAC	TTTCTT	TGCG	CAGT	GTGAT	G
70101	TGATGC	CACAC	AGGCTT	GAAA	GTGCTT	GAGG	CTTG	CCCTC	C
70151	TTTTAA	AATCC	TACCTT	ATCT	ATATTA	AAGAA	ATATTT	ACTA	
70201	GGATGAG	A	CCCTGT	GGA	CAGAAT	GA	CCCTT	AGCT	
70251	CTACCC	AGCT	GTCC	TGCCAA	TTACCAG	A	TGTG	ACATCA	
70301	TCCTGT	CCCA	ATTGA	AGTTT	GTCCAC	ACCC	AGTTAA	CTCT	
70351	AGAAATA	AATA	TATGT	CTGTT	GTTTTA	AAGTC	GCTAAT	TTTT	
70401	ACTATCA	AAAA	GCTAA	AGGAT	GCATATA	CTT	GTTAACT	TTTT	
70451	AGTTGTT	TTG	CAAAT	TTAGG	CTGAGAA	ACA	GTGCT	CTATG	
70501	TTCTCT	AAGG	ACTTAT	TGGT	AGCTT	AGGTT	ACTTAG	TGTG	
70551	CTTTTT	GAGA	CATTTT	CAAA	TTTACT	TATG	AATTTT	AACT	
70601	AAATTT	CTAT	AGCAGA	AACAT	GCTCAT	TTAA	TGTA	AAATAAT	
70651	GAATTAT	GT	ATAAT	TGGATG	ATTGAT	TGTG	GGCTAG	TAGA	
70701	AGAATCG	ATG	TTATA	AAAA	TTGGCT	GATT	ATTATG	AGTT	
70751	TGCAAT	ATTT	ATCTG	TATTT	TATGCA	TAC	TGTTGC	ATAA	
70801	CAGGTAG	ATG	CCCAGT	CATC	AAATGCC	ACA	TGTCAG	AATT	
70851	GTTACAA	ACT	ACATCA	ATCA	AAAACAC	TTTT	CTAGTT	TAAA	
70901	ACTACAG	AAC	ATACAG	TAA	ATTTTGA	ATT	TAAA	TTACT	
70951	AATGTGT	TTA	AACAGC	ATCC	ACTCTT	GGA	TTGCTA	AACT	
71001	TCATAGG	AAC	TGGTACT	ACA	ACTGCAT	ATT	TAATTG	CTCT	
71051	TTTTTTT	CTT	TATTTT	CTCTG	TAATAC	AGTA	TTTACA	AATCC	
71101	GCCATTT	TCC	ATTTG	GCACT	TTATTAT	TTG	GCCTA	AGGCC	
71151	GTGATGT	AC	TCATG	AGCTC	TGGAGT	GATT	AACACT	TGGT	
71201	CTTATA	CTGC	ATTTT	TATGCT	TGCTTC	AGAT	AATA	AAAAAT	
71251	GTCAAC	ATTT	CTGTA	AATTAG	ATTCTA	AAAA	ATTCAG	TTT	
71301	GCAATT	ACAT	CTACAAA	AAAT	TTCTCC	AGAT	TATTT	CTGCA	
71351	ACTTATT	TTG	GTATAG	AAAA	CCTGTT	TCAA	ATGGCT	AGTT	
71401	ATTTAAAA		TAGTAT	AGTG	GGCATT	TAGC	ATGTTT	TCAG	
71451	AGTGCAT	AAA	GTTAAA	AAATTT	CCAAAT	CA	CTTG	CCTAGT	
71501	TTTGCA	AGAA	AGGTG	CTAGG	ATGGAA	AATAT	TGCCAG	TGAA	
71551	TTAATAC	ATT	ACTAAT	TTTTA	GGAGACC	ACA	AGTGT	TAGCC	
71601	ATGTAAT	GTT	TCCTT	CTTTT	GGAGCT	TCTG	AATGGT	GATT	
71651	TAAGGT	CAAA	TGCGT	TTTCT	TTACAG	CATG	AATCCT	TACA	
71701	ATGCTA	ATAT	TCATTG	TGAA	ATTCCA	ATTT	TCTTAT	CCAG	
71751	TGTTAA	CATT	TTGTTA	TAGT	TCCTGT	AA	TTTGT	TGTG	
71801	TGTGTG	TGTG	TGTGTG	TGTG	TGTGTG	TGTG	TGTGTG	TGTG	
71851	GGAGT	CTCAC	TCTGT	CGCCT	ATGCTG	GAGT	GCAGC	AGCAC	
71901	TACTG	CAGCC	TTCACT	ACC	AGGTT	CAAGT	GATTCT	CCTG	
71951	CCAAGT	AGCT	TAGAGT	ACAG	GCACGT	GCCA	CCATG	CCCTG	
72001	TGCTTTT	TTT	TTTAGT	AGA	GATGAG	GTTT	TACCAT	GTTG	
72051	TCTCGA	ACTC	CTGAC	CTCAG	GTGAT	CTACT	CTCTT	CAGTC	
72101	CTGGG	ATTAC	GGGTG	TGAAC	CACAGC	GCCT	AGCCG	TCTT	
72151	ATGTAG	TAA	TCTTA	AGATA	TATGT	AGTTT	TATATT	CTGC	
72201	TAAAAT	TATG	TAGTAA	ACAT	TTTAC	ATTAG	AATTTG	TGTG	
72251	TAAATG	ACTA	CACCA	AAAGAC	TTTTAT	ATAGG	ATAA	ACTGTA	
72301	CCTTCT	TTAG	TCTCAA	ATAT	TTAGG	CTTTT	GTCTAT	TTTT	
72351	GTTATA	AAAGA	TATTTG	TGTG	TAAATC	TTTTG	CATTTA	TGAT	
72401	AAAAGT	ATAA	GACTAAA	TG	TATTAT	TTTTT	AAAGCT	TGTG	
72451	AGCTTT	TGTT	TTCAG	AAAGG	TTATT	CTAAT	TTATG	ATATA	
72501	TTAAA	ATTAT	AACAAC	CTTA	AGCAGG	AACT	CAATTT	TCAC	
72551	TTCTTT	TTAC	TTTTCA	CTAG	AGTTT	ATTTT	TTTAA	CTTTT	
72601	TTATTG	TCAG	AAATTG	ATAT	TGAATA	ATCT	TTAGAT	AAAT	
72651	AAAAG	AAAAAT	GAAAA	ATAAT	TATTA	ATTAT	ATATC	TTCTC	
72701	AAGTG	TAAAA	TTTTT	TAGATA	AAAGGG	TATA	GCTGG	GCCAT	
72751	GTATTT	TACA	GTACAT	GACA	GCAGG	TCTT	ACCTT	TTATT	
72801	GTACTT	AGCA	TATGA	ATAGC	ACATAG	TAGA	TACCC	AATCA	
72851	AGTGAG	TGAA	TGAATA	ACTG	TAATTT	TCAT	GAATA	AAACC	
72901	GATAAA	TTTC	AGATAT	ATGT	GAAAA	TGAAT	TTCTC	ATCTT	
72951	CAAAGT	ACAA	TAGTCT	ATTA	TTAAC	CTCAT	GAAGC	ACCTT	
73001	ATATTT	TATA	AAGCAG	CTGA	TTTCT	TCTAT	GATTTT	TAAAT	
73051	TGAAT	TTAAC	ATTTT	TAGAA	TAAAA	ATGCC	TATAA	TAGTA	
73101	TACTCT	GGA	AGATAT	AAAG	AAGTC	CTTTA	TGTTT	TCTGC	
73151	TGCTG	CTTTT	ATCTAC	TATT	AAAAA	TTCTT	ATTTT	TAGTAA	
73201	AAATAG	TGCT	TTTAAT	ATTT	GTATT	CATAT	ATTAT	CATTG	
73251	CTCTAT	GTAC	ACCATA	AACAA	TTTTC	AGTGA	TAAGT	TGGCAT	
73301	ATATATA	CAAA	ATGGAG	TATC	ATCAAG	TTTTA	ATTC	TTTTAT	
73351	CTGCC	TCTCC	TCACCT	CCAT	GCTTT	CTCTG	TTTCAT	TTTTA	
73401	TAGGT	TGTT	CTTATT	ATTT	GGAAG	TAAAT	CATCTT	ATATA	
73451	TTGCC	TTTGG	ATTCT	AGTTT	TCAGA	ATTTG	GACATT	TTGGT	
									TCACAATGAG

FIGURE 3U

73501 CTAATGTATA AACCATTAGA GAGGTAGTAC TCCATTTTCT TGTGAACGCA  
73551 GTTTTGTAAA GTGAAGCTGCA GCCAGAGCCT CAGGACTAAT TGTATAACCC  
73601 AAACCCCTTA GTAAACTCCG ATCCAGGTTA AACTTAGAGG TCGTTGGCTA  
73651 TCAAATTGAG TGTATACAC ATATCATTAG TTAAATAAAC ATTTATTTAC  
73701 TCCCATTTTA AAATGTAGCA GTTTTCTTAA TTATATGAAT AATCAACTGT  
73751 CTCTTTCACT AATTATATAT TTAATAATTA CTAATATATT TTCACCTGGC  
73801 ACCTTTTCAG ATGAGCCTAG AACATCAGAA TGTGACAGTC AGTTGAGTTT  
73851 CATAGGATGA GCTCATTAGC AGTACATTTC TGGTGCAAAG GTTTGAGTGA  
73901 AGTAGTTTAA TTGACTATAA TTATATTTCA TTCTTCATAT CCCCTTAGGA  
73951 TAATTAGAAG AAATTCATTT TAGTTTTTAT TCTTTAAATA CAGTACTGCA  
74001 TTTTATATTT TATTTTTTTA CAGGCTCAAA GATTGAGGGT TTCTATGATG  
74051 CTTTATTAAA TAAAAGATTG CTTTTTTTGG AATAAATAGT ATAACCTGTG  
74101 GAAATGCTAT TAATTCATA TTGGTTCTTG GCAGGGCTTT TAAATTTGGT  
74151 TTCTTTTGAT TTGCTTCTTG TTGCTAGAC AGAAAAGTGT CTCTATCAC  
74201 TCCCAAGATC CCAGTCTTTC TTGCCAGCTT CTCTTGTCAT TTTTATAGT  
74251 TTTAAGTAAT AGCAATTGAA CAGGAAAGCA CATTTGGGAA AGTAGATTAC  
74301 TTTTACCAG GAAATAGTGC CAGAATCAAG ATTGTAGTTT TAATCTCCTT  
74351 AAATATTTCA GAAGGTTAAC TCTTTCATTT CACTTTTCTT TTTATACCTT  
74401 ACTTTTGTITG GGCTTTTATA AAGGAGGAAA AATGGGAGAG ATAGCAAAAG  
74451 TTACTGGAAG GATCATCAAT TTCTATCCTC AGCTCTGATC CTGATTAAC  
74501 TTTGGTGAAA TCAAATAGCC TTCTCTCAG ACTCTAAATG GAAAATTTAA  
74551 TTTGCAATTT CTGATGGTTA TCTTGTTCTG TATTTAGAAA TAATGTTGAA  
74601 GTTGTGATAG AGGCATTATG CTACGCTTCT TTGTATATTT GATCAGTGCT  
74651 CTTTAAATAC TTTATGAGTG TTTGCTACAG TTACATATTT TCAGACAGAG  
74701 TAAAGGAGAT AATAATTGCG ATAAAGACTA GTACCCACTA GTAGGGTTAA  
74751 CGTGGTCTT TTGTGGTACC ACACCTTCATC ACTTTACTAT ATACAGATAT  
74801 GAAGTAATTG TATACTCATT TATCTCGCCC TTTAGTTTCAT TGGTCCCAT  
74851 ACTTCATAGT GTGATCTTTC CAAAATAAAT TACTAATATA GCTTAAATC  
74901 TATCAGCCTA ACTGCCTATT GATCATCTCT AGTATGAAAT CTGTGCTCAT  
74951 TAGCCTCCTT TTCCACTTGC ATCTCCTTT ATGCTCTAGT CTGTGTAAC  
75001 CACTTCATAT TTTTGACAT GCTGTCTCTC CATCTGCCTG AAAAGTTATT  
75051 TTATGACCTC TCAGTTACCA AAGATCCTGT AATGTGTACA CCTCATGCCT  
75101 TCCATACACA TGGACTCCAA ATACACATAT ATGCTTTGTG GACATAATTG  
75151 TGTCTTGTGT ACCTTTGTAT CCCTAGTGCT TGGCAAATAA AAACAACATA  
75201 CTTAATTTTA GTTGAATGGC TGAGTGGATA TTTTGTGAAG CAGTTTATGG  
75251 TAGTTCCCTAT TTTTTCAGAA ATAGTTCTTT TGCCCTTTACA TATGTATTAG  
75301 TCAAGATTCT CAAGAGAAAC AACCAATGGG ATGGATGGAT GGATAGATGG  
75351 GTGGATGGAT GGATGGGTAG GTAGGTAAG AGGTAGCTAG GTAGATAGCT  
75401 AGGTAGGTAG GCAGATAGAT AGATAGATAG ATAGATAGAT AGATAGATAG  
75451 ATAGATAGAT AGATAGGAGA GGAGATTTAT TAGGGGAATT GGCTCACACA  
75501 ATTATGGACG CTGAGAAGTC CCTCATAGGC TGCCCTGCAAG CTGGAGATGT  
75551 AGGGAAGCCT GTAGAAGGTA GTGTGACTCA GTCCAAGTCC CAGGGTCTCA  
75601 TAATCAAGGA AGCCAGTGGT GTAATTCTCA GTGAGACTGA AGGCCGTGAGA  
75651 ACCCAGGGGG CTGCTGGTAT AAGTCCCAGA GTCCAAGGC TGGAGAAGCT  
75701 AGAGTCCCAA TATCCAAGGA CAGGTAAGA AGGGTATTCT AGTTCCAGGA  
75751 AAAAGAGCAA ATTTTGCCCT TTTACTGCCT TTTAATTTTG TCTGGACTCT  
75801 TAGCTGATTG GATGGTGCT GCCCACATTG AGGGCTGATC TTTCTAATG  
75851 AGTCCATTGA CTCACACCAT TCTCTGGAAT CATCCTCACA GATACACCCA  
75901 GAAATAATGC TTTACTAGCT ATTACATATC CCTTTATTCA GTCAAGTTGA  
75951 CACCTAAAAT TAGCCATCAC ACCAAATGTT TTTGTTGGGT AACAGCTTTA  
76001 TTTAGATGTA ATTCACATAC CAAACAATTT ATTCATTTAA AGGGTACAT  
76051 TCCATGGTCT TTAGTATATC TATGGAATCA AGTAACCATC TCCACAGTCA  
76101 ATTTTAAAG ATTTTACCA CCTAAAAAGA AACCTGTGCT CCTGTACTTA  
76151 CTACCTCCCA ACCTGCCAT CTCACTAGA TAATCACTTT GATTGCTCTG  
76201 TTCTGTACAT TTTCTATAAA TGGAAATCATA AAATATGTGG CTCTTTGTGA  
76251 CTGGATTATT TTTTATAGCA TAGGTTTTC AGGTTTCATG ATGTTGCAGC  
76301 ATGTATCAGT ATTTAATTTT TTTTAACTGC CAGATCATAT TCCATTGTGT  
76351 TGATATAGCC CATTTGATTT ATCAGTTCAT CAGTTGATGG ACAATTGGGT  
76401 TGTTTCTACT TTTTGGCTAT TATGATAATC CTGCTGTGAA CATTCATGTA  
76451 CAAGTTTTCG TGTGAATACT TGCTTTAAT TCTTTAAGGT ACATATCTGG  
76501 AAGTGGAATT GCTGAGTCAT ATGGTAACCT TGTGTTTAA CCTTTTGAGG  
76551 GTCCTCTAGA TATTTCCAA AGTATCTGTA CCATTTTACA TTCTTACCAG  
76601 TAATATATAG AGAGTCCCA TTTTTCAC TTCTTTGCTA AACTTGTGA  
76651 TTATTTATCT TTTTGATTAT AGCTATCCTA GTGGGTGTAA AGTATTATCT  
76701 CATTGTGGTT TTGACTTTCA TTTCTAAAT GACTAATGAT GTTGAGCATC  
76751 TTTTCATTTG CTTATTGACC ATTTCTATTG CATCTGCTTT AGGGAATGT  
76801 CTAGTCAGAT CCTTCCCAT TCTTAATTCG GTGATTGTG TTTGATTAT  
76851 TGAGTTGTGA CAGTTCTTTA TGTATTCTAG ATATGATTCC TTTATCAGAT  
76901 ATGTTATTTG CACATTTATT TTTCCAGTTA GTTGTCTCT TCACTTTCTT  
76951 GATAGGGTCC TTTGAAGCAC AAAAGTTTAA AAAAAATTT TGATTAAGTC

FIGURE 3V



### FIGURE 3W

80501 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80551 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80601 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80651 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80701 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80751 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80801 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80851 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80901 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
80951 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81001 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81051 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81101 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81151 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81201 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81251 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81301 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81351 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81401 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81451 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81501 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81551 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81601 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81651 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81701 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81751 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81801 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81851 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81901 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
81951 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
82001 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
82051 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
82101 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
82151 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
82201 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
82251 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNACAGA  
82301 GGCAGGCAGG CCTCCTTGAG CTGTGGTGGG CTCCACCCCA GTTCAAGCTT  
82351 CTTGGCTGTT TTGTTTACCT AAGCGAGCCT GAGCAATGGC AGGCGCCCTT  
82401 TCCCCAGCCT CGCTGCGGCC TTGCAGTTTG ATCTCAGACT GCTGTGCTAG  
82451 GAATCAGCGA GACTCCGTGG GCGTAGGACC CTCTGAGCCA GGTGCAGGAT  
82501 GTAATCTCCT GGTGCGCCGT TTCCTAAGCC CGTTGGA AAA GGGCAGTGT  
82551 CAGGTGGGAG TGGCCCAATT TTCCAGGTGC CCTCTGTTAC CCCTTTCCTT  
82601 GACCAGGAAA GGGAACTCCC TGATCCCTTG CGCTTCCCGA GTGAGGAAAT  
82651 GCCTCGGCCT GCTTCGGCCG GCACACGGTG CACTGCACCC ACTGTCTGTC  
82701 GCCCACTGTC TGGCACTCCC TAGTGAGATG AACCCGGTAC CTCAGATGTA  
82751 AATGCAGAAA TCCCTCATCT TCTGCGTTGC TCACGCTGGG AGCTGTAGAC  
82801 CGGAGCTGTT CCTATTCAGC CATCTTGGCT CCTCCCACT ATTTTGAATG  
82851 TTTTCTATGT TATCTTTTGA GATAATCTAG TGTTTCTTAG TCTGTCAATA  
82901 TGAATTATAT TAATTGATTT TCAATGTTTG AATCAGTCTT GTAGTCTGG  
82951 AATGAACCTC ACTGGAATGT AGTATTCCCT TTGCACATTG CTGAATACTG  
83001 TCTACTAATA TTTTGTGAG GATTTTGTGA TATATGTTCA TGAGAAATAT  
83051 TGTCTGTAG TTTTCTTAGA ATGTTTTTGT CTGCTTTTGT TATCAGGATA  
83101 ATGTTGGCAC GGTGAAATGA GTTGGGAAGT ATTCTCTTTA GTTTTTATTT  
83151 GTTGAAGAA ATTGTGTAGA ATTAGTATTA TTTTCCCTT ATATGTTCTC  
83201 CATTGAAATC ATCTGGGTCT GGAATTTTCA TTATTTGGAA GGCTATGTA  
83251 AATTTTAATA TTTTACTAA ATCTAGGACT ATTCAGATTA TCTGTTTTT  
83301 TTCTCAAGTG AATTTTGGTA GTTTATATTT TTTCAAGAAT TCTGTTTCAC  
83351 CTAAGTTGTT GAATTTATGG CCAAAGAGTC ATTCATAGTA TTCTCTTATA  
83401 TTTTAAATAT CTGTTGGATC AGTGGTATGT CCGGTCCTTC ATTTTGTATA  
83451 TTGGTAATGT GTGTTTACTT TCTCTTTTCC TTGGCTAGAG GTCTGTCTAT  
83501 TGTATTGATC TTTTCAAATT GCCTTTCTTT CTCTTTTTT TTTCTGAGAC  
83551 AGAGTCTCAC TCTGTTGGCC AGGCTGGAGT GCAATGGCAT GATCACAGCT  
83601 CACTGTGACC TCTGCCTCCT GGGTTCAAGC CATTTTCATG CCTCAGCCAC  
83651 TTGAGTAGCT GGGATTACAG GCATGCACCA TCAGGCCTGG CTAATTTTGT  
83701 TATTTTGTAG AGGGAAGGGT TTTTGGCATG TTAGCTGGCT AGGCTGTCTT  
83751 CAAATCTCTG GCCTCAAGTG ATCTGCCAC CTCAGCCTTT CAAAGTGCTG  
83801 GAATTACAGG TGTGAGCCAC TGCGCCGAGC CTGTGTTTAT TGGTTTTCTG  
83851 TTTTCTATTT TATTTATTTT TACTCTAATC TTGTGTTTAT CTTTCTTCT  
83901 GTTGTCTTTA TGCTAAATTT CTCTCTCTTC CTCTAGTTTC TTAAGGTGGG  
83951 ATGTGTGTTT ACTGATTTTA GATCTTTCTT CTTTCTAAT CTAGGCATTC

FIGURE 3X

84001	AAAGCCATAA	ACATTCATTA	AGCACTGCTT	TAGCGGCATC	ACACATATTT
84051	GATATAGTGT	ATTTTCATTT	CCATTTAGTT	CAGCATATTT	TAGAATTTCC
84101	CTTGGTACAT	CTTTAAATTA	TCACAGTCTA	CCTTTAAGTG	TTATTATACC
84151	ATGTGTACAG	TATAAGAACC	TTAGAACAAT	ATATTTCTAT	TGTTCCCTC
84201	CTGGCCTTTG	TGCTATTGTT	GTCATATGTT	TACTTTTGCA	TATATTGTAA
84251	ACTTCAAAAC	ATACTGTCAT	CAGTTTTGCA	CTAAACAGAG	TATTTTCTTT
84301	TGAAGAGTTT	AAATATTAAG	GAAAAGTGAT	ATTTATATGT	ACTCAATGTA
84351	GTCACCATTT	CCAGTTCTCT	TTAGTCTTTT	GTGTAGATTC	AAGTTTCTAT
84401	CTGGTATCAT	GTTCTTACT	CTTGAAGTGC	TTACTTTAAC	ATTTCTCTATA
84451	ATGCAAGTGT	CCTGGTCAATG	AACTTCTTCA	GTTTTTTTTT	TTTTAATATC
84501	TGAAAACGTA	TTTTGTTTTT	ATTTTAGAAA	GCTATTTTAA	CTGAATAAAT
84551	AATTCAGGTT	GTGATTCCTT	CCCTCCTTGT	GTCTTTTAA	GGTTTTGCTC
84601	CACGTGCTTC	TGCTTGTAT	TTTTTTTGAA	AAGAAATCTG	CTTCTTTCAT
84651	TTTCTTTGTC	TTGCTATAT	AACATGTCCT	CCGGCCCTAC	CTCATTTGCTT
84701	TAAACATTTT	ATCATTGGTT	TTAAGCAATT	TGGTTATCAT	GTGCTTGGT
84751	AGTTTCTTTC	ATGTTTCTTG	TGCTTTCTGT	TTATTCATCT	TGTATATTG
84801	AGCTTACAGT	TTAGTCAAA	TTTGAAAAA	AAAATTTCTT	CAAATATTTA
84851	GTGTTTGCTC	TTTCTCTCT	CACGTGAGAC	TCAAATTACA	CACATATATA
84901	TGGAGATTGT	GTCCTCTTTT	TTACTTTTTT	TGTTTGGTTT	TTGGTAATCT
84951	CTATCTAGTG	CTGCACCTAC	CAGTTCATAG	CCTTTTTCCC	CTTTTGAAAT
85001	GGCTAATCTG	CTGTTAATTC	CATTCAGTGC	CTTTTAATAT	TGTGGACATT
85051	GTAGTTTTCT	TCTCTAGAAG	TTTGATTTTT	ATCTTCTTAA	AATGTTATAC
85101	TTTTCTACTT	ACTGTTTTCA	ATGTTTCTTT	TATTTGCACA	AAGGTAATGC
85151	ATTTATAACT	TCTAATGTCC	TTGTCTACTA	ATCCTATCAT	CTGTGTACTT
85201	TTTGGATCAG	TTTCAATTTA	TTGGTTTTTC	TCTTTCTCCT	TACGGGTATA
85251	TTTTCTGTTT	TCTTTGCATG	CTTGTTATTT	TTTTTGTTTC	CATTTGCAAA
85301	GTTATTTTCT	TTTACTCTCT	TTTTTTTTTC	TTTCTTCTCT	TTTTGTAAAA
85351	GGAAACCATG	GTCTTGGGGG	CTAGAGCGGA	GTTTTGCATG	CCTGGTAATT
85401	TCTGATTGAA	TTCTAGACAT	TGTAATTTTT	ACCTTGTGG	GAGGTGGGT
85451	TTTTAAATAT	TCATAAGAAT	TTTAGTATTT	ATAAAAATAT	TTTTGAGTGT
85501	AATTTTGAGG	TGTGGTTAAG	TGTTTTGGTA	ACAGTTTGAT	CCTTTTTAGT
85551	CTTGTTGTTA	AATTTTCTGA	GGTGAGACTA	AGGCAGTGTT	TTGAATAGGG
85601	TTGATTTTTT	CACCTCTATTG	AGGTAGGGCC	CTTTTATAGT	CTCTACCTAA
85651	TGCCCTATGA	ATTATGAGTT	TCCACTCTGG	CTATTCGGAG	GAGGCACTAT
85701	TCCCTGGCCT	TTGTGAGCTT	TGAGTATTAT	TTGCTCCATT	CTTTTATAGT
85751	GCTTTTCTTT	GGTCTTGTGT	GTTTTCTTCA	CGTGTGAATA	TTTGGCAGCC
85801	ACTTTTCCGT	CACACACAGG	GTTTTCTCTT	TGTTTGAATC	CCCACTCCCT
85851	CTGTCTCTGT	ACAGGGGAGC	TGTTTTATTC	TTCTTTCTTG	CCTATTAAAT
85901	TCTCCATGCC	TATATNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
85951	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNCTTCTG	CAAATTTTAA
86001	AGGTTTTCTC	CCTGGGAAGT	TTATTTATTA	TCTCCAGTAC	TCTACCTGCT
86051	AAACTGTAGC	CACCTTTGACT	TTCCCATACT	CCTAGCTCTG	TCTTCTCAAC
86101	TCAGGGAGTT	TGTAGGTTCT	GCCTAAGGTT	TCCATTGCTG	TGACCTGTGA
86151	ACTTTTTCCA	GTCAATAAGT	TGGGAGCAAT	CATAGGGCTC	ATCTTATTGG
86201	TTTCCCTTTT	CTCAAGGGTC	ATTGCTTTTG	ATTCAGATGT	TCAGTGTCTT
86251	GAAAGTTGAT	GCTTTATATA	TTTTGTTTAC	TTCTTTTAGT	TTAGTTTTTT
86301	TGTTTTGTTT	TTTCCAGACA	TGCTTATGTC	CATTTAGTAT	TGCTATAGAA
86351	TTTAGTATTG	CTATAGAGGA	ATGCCTCAGG	CTGGATAATT	TATAAAGAAA
86401	AGAGGTTTAT	TTGGCTCATG	GTTCTGCAGG	CTGTACGAGA	AGCATGGCAC
86451	CAGCATCTCT	TTCTGCTGAG	GCCTATAGTA	AGCTTTCATC	TGTGTAGAAG
86501	GTGAAGGGGA	GCTTACATGT	AGAGATCACA	CGGCAAGATG	AGCAGCAAGA
86551	GAGAGATGCC	AGGCTCTTTT	CAGTCACCAG	TTCTTATGGG	AACTAAGAGT
86601	GAAAACCTTAC	TCACTCTCTG	AGAATGGCAC	CAAGCCATTC	ATGAGGGATC
86651	TGCTGCCACA	ATCCAGACAG	CTCTTACCTA	GGCCCTACCT	CCAATATTGG
86701	GGATCAAATT	TCAGTGAGAT	TTGGCAGGAC	CAAACAAACC	ATATCCAAAC
86751	TATAGCAAGA	CAGAAAGGTA	AATAAATGTT	ACCTTTTTTA	CTTTATGATC
86801	AGAAACAAAG	GTCCTTATTT	ATCCATTTTT	GAAAGTCCCA	TATTTAATGA
86851	TTTACAGCCA	TGCCACAGCA	TAGGACATAT	TCACATGTCC	CGTGTAAAAA
86901	TTGCTGTCTG	AATTTTCATGT	ACTCTTTAGA	GAAGTCTTTT	GCAGTTTTAA
86951	GTATACATTT	TTAGGAAAAA	AAAGCTTATT	AAGAATGAAA	TTTCTTCTCG
87001	TTTTGATCCT	ACAGAAAGAG	GAATGCTCTA	AGGTAAGATG	GGGCATGATG
87051	CTAAAATGGG	AAAAGTAGGG	TAGATTGATG	AAACTTAATC	TGAAAACTAG
87101	CAGCAGATGT	TTGAGAACTC	CATCATAGGC	CTGAAATAAA	TTTAAGGATA
87151	AGTTTAAAGG	TTTGGTATAA	AGTTTTCTTT	AATGTCTCTG	GTTGAATGTA
87201	GATGGAGAGT	GGGGGGAGGT	GTGAGTTCTG	GAGAACTGTT	AATTTGTTTG
87251	TAATTTTATT	ACCTATCTGT	CTGTGCATCT	GTCTTCATTG	GGGTCCCAAA
87301	GACCACTCTC	AGGCTTTGATG	ATTCATCTAG	AGGACTCACT	GGACTTGGAA
87351	GCTGTTACAC	TCATGGTTAT	GATTTGTTAA	CACTGAAAGG	ATACAGATAA
87401	AAATAAGCAA	AGGGAAAAAGG	TGCATGGGTA	ACGTCCAGAA	GAAACCAAGT
87451	ACACACTTCT	AGATGTCTCT	TTCCAGTGGG	GTCACATGGG	AACACACTTA

FIGURE 3Y

10/506549

87501 ATTCTCCCAG CAACTATGTG TGACAACAGG TGTGAAGTCA CTACCAAACA  
87551 GAGAAGTTCA CTTGAGCCTT AGTGTCCAGA ATTTTACTGG AGGTTAGTCA  
87601 CGTTGGTATA CTACAGTGCT GCGTGACTG ACCTCAGCTA TCCAGATTCC  
87651 AGTACTTCCC AGGGCAAAAA CAAGCATTCA CCATAAATCA CACTGTCACT  
87701 ATAAACTTAT CTGGTCAGAT TGGTACAGCA TGGCCCAAGG TACATACATA  
87751 CTGGGATATT GTGCTCGATA CTTGTTTTTA TATGCACCAG TACATACCTC  
87801 TCTAGTTTAC TAACTCCATA CTTTATTTGG ATTGAATTAG TTTTCTCTCT  
87851 AATGTCCTTT GTCTGTTTGA GGATCCCTTG TAGATTTTCA CATTACATGT  
87901 GGTTCATCATG TTTCTAGGTT TCTCTGGGCT GTGACAATTT CTTTCTTTAT  
87951 TTTTGATGGC CTTGACGATT TTAAGGTGTA CTGGTCAGGT CTTTGTAGA  
88001 ATGCTTCTCA ATTTGAGTTT GGTGATGTT TTCTTACGGT TTGACTGGGA  
88051 TTGACGGTTT TGGGAGGAAA ACCAGACATG AAGTTCCAAT TTTTCATCACA  
88101 GTCTAACTAA GGTATAATAT ATATTTTGAA CCTTTAATTA TCTAATTTAA  
88151 AAATCTCCTG GCCCTTCAGA AATACTTAAT CAGATTTTAG GCCATTATGG  
88201 TGCTTATATG CCAGATTTGT TCTCAGTGGC TTTTCTTATC TGATAACTTT  
88251 TAATTAATAG GCAGCCTTCT TTGCAGTGGT GTCAAGATCA CTGTGCACAA  
88301 CTTTCATATCT TTCTGGAGAC AACAGGGAAA GGAAGCCAGA AGGGAGAACAA  
88351 GTAATTGGTC AAGTTGCAGA TTAGGGGAGC TAAAATTGGT CTCTTTTACT  
88401 AGATTAGAAT CTGGAGTAAA ACTCCAGTCT GGCCCTTCAG CATAACTTTT  
88451 CCATTATTTA CTGCTGCTC TCTTCTTCT ACAAGCCAAA TTAATAATTTA  
88501 GTATTAGGGA CTCCAAATGG TACAAACTCA TTCATTCTCT TTAATTGCCT  
88551 AACTCCTACT CATTCTTCAT ATTGTTGCTT AAATGTCAGA CCTTTTAGGA  
88601 AGCTATACTT GACTTAGAGG ACCCTCAAGG CCTGTCATGG GCTCTTGTAG  
88651 TATTCGGTAT AATTTTTTGT CTAGTCCTTA ATTTAAGTAT TAGTGTATGT  
88701 TTTAATGTAT TTTTCTCCC AGACTGTAAG CTCCACAATG TAGAGACCGT  
88751 GTCAGTTTTA TTCATTTTTG TATTCTTAGA GCCAGGCCAA GCATTCAAAA  
88801 CAGCCATGCA GTAATATGAA TATATCTGAA TCAATGAGTG AATACATAAA  
88851 TAATTGAGAA AATGAATGGA TATTAGATAT TAAAACCTTT ACCAACTCTA  
88901 CTTATAGCAG CTGACTCTA GTTAACCATA AATACACACT TGAACGCAT  
88951 GGGCCCCACA CTTACCCCTAA GTTATAAAAA TGGTACAATT AGGTAATTTT  
89001 TACCCTAAGA CAGTCAGTTT TTGCTCAGCG ATCTAACCCAC GTAGGCTTGC  
89051 TFACTTCTGA GACTTGCTTG ACCTATCTCA TTGAACTCGC TCTGTGCTG  
89101 AGATACATGT CCAATTTCTC AAGGCAAGTT CTCTTCCAG AATTGCTTG  
89151 TGACATACTT TGAGCTCAAT CCCTAGTTGG TTCTGTACCA GTAAACTCAT  
89201 ACCCCCAGCT ATTACATGTA GCACATTCAA CATTGAGGGA CAAACTTTGA  
89251 TGTAAGTTAA ACTTTTTTTT TCTTTTCTAA ATATTGCCCA TTAAGACTGT  
89301 GTTTTAAGGA TTGTTTTCTA ATACTTCTT CACTCTTTAT CAGAGGTTTG  
89351 TCCTCCTACC TTTTGCCCTC AAACCAAAAC ATCAGTAACA GTCCTCTTTC  
89401 CCCCACATCT TTGTCTCTG GCCAGCATTG ATTATTCTTC CCCATGGGGG  
89451 AGCTTACTTT CTAGTCTATA CCTCAGGACA CAGAATCTGA ACTGCTTTTA  
89501 AAGTTTGCTT ATATGAGTTT GCTGAGCTTT CTGACCCAGA GATATCTTCT  
89551 GTCCTTGCTT CGCATTTAAT AAACATTTGG AACATCCCTT CAGCCAGTCT  
89601 TGGCAGAGTA GGCTTTTTAT TTCCATGTAT ACAAAAAACTT TATTATCAGC  
89651 TAACCATCAA AGGAAATCAG AGAAAATGGT TTGAACTTAT GACCCAACTA  
89701 TTTGGACAGA TTAGGGCTAG GAAATGTAAT GCAAGGCATG TATGTATAGA  
89751 CTTTGTACAC TTTTACATAT TGGTTTCACT CGCGTCCCTG TGAAGAGACC  
89801 ACCAAACAAA GACTAGGGAG GGACCGAGCT GTTAAAGAAT GCCTGGACGT  
89851 CAGGCACCTC AGACCGTTTG CCCATTTTAT GACAAGAATT ATCTAGATCT  
89901 TGTAGGATGG AAAAAATCGAA AGTGCCATTT TCTGGCTATT TGGAACTACT  
89951 GTCAAGTTTA TATTGGGGTC AAGCGGTGTT GGAGAAGAAA ATAAAAATGCT  
90001 TAGATTTTAG ATCAGGTGTG AGCTGAAGAG GTTTTAAAGT CTTGAGAACAA  
90051 CAGGCTAAGG GAGAAGAAGG AGGAATGGAG GGTGGAAGGT TGCCTATAGT  
90101 GAAGGAGCAA GTCCAGAGAA AAGAGAGGGT AGAGACAGAG TGAAGGGGTG  
90151 GGGGGTGCTT GCCCCCCTGG AAAGTGGAGA GAAAAGAGAG GGTAGAGACA  
90201 CAGAGAGAAG GGGGTGTTGG TGCTTGCTTC CCAGGAAAGT GGAGAAGGGG  
90251 TGGGTAGAGA CATGGAGAGA AGGGGTGGGG GTTGCTTGCC CCCAGGAAA  
90301 GTGGAGAAGG GGTGGGTAGA GACATGGAGA GAAGGGGTGA GGGGTGCTTG  
90351 CCCCCAGGA AAGTGAGAGAA GGGGTGTGGG GTGCTTGCCC CCCAGGAAAG  
90401 TGGAGAGAAG GAAGGGTAGA GACATGGAGA GAAGCGGTGG GGATGCTTGC  
90451 CCCCCAGGAA AGTGAGAGAAG GGGTGGGTAG ACACATGGAG AGAAGGGGTG  
90501 GGGGGCACTT GTCCCCCAGG AAAGTGGAGA AAGGGTGGGA GGTGCTTGCC  
90551 CCCCAGGAAA GTGGAAAAGG GGTAGAGACA CAGAGAGAAG GGGTGGGGGT  
90601 GCTTGTCCTC CAGGAAAGTG GAGAAGGGGT ATGGGGTGCT TGCCCCCAG  
90651 GAAAGTGGAG AGAAGGAAGG GTAGAGACAC GGNNNNNNNN NNNNNNNNNN  
90701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
90751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
90801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NCTGTGACCG GCGCTGGAGT  
90851 TTTGGGTCCA CGGATAAAAC GCATCTCCTT TGTCTCTACC AGAAAAGGAA  
90901 AGGAACTGAA ATTAAGACAA GGGCGAGACT GAAGTGTGGC ACCAAGATTG  
90951 AAAGGAGAAA GAGATTGAGG GTTAGTGAGA GAGGTTGGAG AAGAGAGTAA

FIGURE 3Z

91001 AGAGGCCGCT TACCGACTTT AAAATTGGTG AGATGTTCTT TGGGCTGGTT  
91051 AGTCTGAGGA CCAGAGGTCG TAGGTGGATC TTTCTCATGG AGCAAAGAGC  
91101 AGGAGAATAG CGGACTGATC TCCCAAGGCA GGCCCCCTA TCCGAGTCAC  
91151 GGCACCAAAT TTCACCTGTC TCTGTGTGAA GACACCACCA AACAGGCTTT  
91201 GTGTGAGCAA CAAGGCTGTT TATTTACCT GGGTGTGGC GGGCTGAGTC  
91251 CGAAAAGAGA GTCAGCAAAG GGAGATAGGG GTGGGGCGT TTTATAGGAT  
91301 TTGGGTAGGT AAAGGAAAT TATAGTCAAA GGGGGTTGTT CTCTGGCTGG  
91351 CAGGGGTCAG GGGGTCACAG GGTGCTCAGT GGGGGAGCTT TTGAGCCAGG  
91401 ATGAACCAAG AGAAGGAATT TCACAAGGTA ATGTCATCAG TTAAGGCAGG  
91451 AACAGGCCAT TTTCACTTCT TTTGTGATTC TTCAGTTACT TCAGGCCATC  
91501 TAGATGTATA TATAGGTGCA GGTACACAGG GATATGATGG CTTAGCTTGG  
91551 GCTTAGAGGC CTGACAATTG GTAACCTTTT TCACCTGACC ACATGTATGG  
91601 GTTTAATACT AACTCTCCAA CTTTTTCTT TATTTTATT TTATTTTACT  
91651 TTAAGTTCTA GGATACGTGT ACAGAAATGT CAGGTCTCTA GCAAACCTAAC  
91701 ACAGGAACAG AAAACCAAC ACTGCATGTT CTCACCTATA AGTGGGAGTT  
91751 GAACAATGAG AACACATGGA CACAGGGAGG GAAACATCAC ACACCAAGGC  
91801 CTGTGGGGT TGGGGGGCAA GGAAGGGAG AGCATTAGGA CAAATACCTA  
91851 ATGCATGTGG GGCTTAAAC CTAGATGATG GGTGGTAGG TGCAGCAAT  
91901 CTCCAACCTT TTTCTATATT GCCCATCTTA ACCTCCTACC AGCTTGTCCC  
91951 TCTGTCACTT TTACCCCTTC TGTGTGTTTA CTTGTAAGAT AATACAAGAT  
92001 AAATATATGT CTGCTATTA ATTTATTTCT TTACCAAGCA CCAAACATAT  
92051 GTAATATAGA AGGTACTATG TTAGGAAGGT CCTAGTCATA CACACATATA  
92101 GAAAAAATAG TTTAGTTATT AATTACTCAT GCCTCAAATT ATCAAGAAAA  
92151 GTAATCAAAA CTCATTTAAA CATTTTACT ATTAATAATG ATTTCTTCTA  
92201 GTTTTGGGTC ATTTGGTTAT GTAGTATTCC ATATGATTGA CTTAAATTC  
92251 ACTTAAGAAG CTTGTAAAC ATATACTTAG CTCCTGGGCT TAGGGGTCAA  
92301 TCAGTAGAAT CCCCTCTGTC TTCCCTCTGT TTTTAGTTTC CTGTGTTTFA  
92351 GTTCTATAT TTTCCATATT CCTTATCTT TCCCAGTTCT GCTATGCCAT  
92401 GGTAAAGAA GTACAGGTTA CTAAGCAGTT TTTTAAATA TTCAAAGCAT  
92451 TTGCTGGTGA TTATAGGGAA GTTATTCAAG GAATTTGGTA AATTAGAAAA  
92501 AGCAAAATAT TTTATGATG TATGAAGAAT TTTGTAGGCG AGTTTTATGC  
92551 TGTGTGCATA TCTGAGTCTT AATTTTGTG ACTTTTAA GTTTCCATTT  
92601 TTTATGAGTT TTTTTCTTA TACTTGTTCA TCTGACAAA GTAGGTAGTT  
92651 TTTTAAAAGC TTATGTGTA AATGGTTAAC CATTTTAAAG GTGAATTAAAG  
92701 ACATACATTT TTGTAATCTA AGGGAAGTTA CTTGGATAAT TTATTATATT  
92751 TATAAGGTTT GACTTCATGC ATAGCCAGAT CTGAGGACAG TGCTAAGTGT  
92801 GATTGTAATG TAATTATATT TTAGAAATTG AGCTAAGATT TTAATATAAC  
92851 CATTAACCTG ATTATTGAAA TCTATACAGT TTGAAAAAAA ATTACCTTTA  
92901 AGTTGATAAT ATTTTTCATG TTTTTTTCAG ATACCTATAT TTTTAAACT  
92951 TGAATAATTC CCATCTTAAT GTCTTTACTT ATTAATATG ACATCTATGA  
93001 ACATCTGGCC CTCTTAGCTA TTATATGTTT AGTGAGGTTT TCAATGTTAT  
93051 TTAATAAAGA GCAACAAATC CCAACAAATC AAGAGCAATT AGTGGCCAG  
93101 TTTTGGTGA TAGTTCTTA TATTCTTTCT AATCTAGTTT TTAGCTTTT  
93151 TGTACTCCA TGTGTGAAAT TGTTAGATGT TTTCAACCTA AGCTTGCTTA  
93201 TGGAAAATGG AAATAAAACA GAAAGAGGGG AAAGGCTGGG AGAAAAGAGA  
93251 AGCAAAAGACC TCTTTGAATA CTCAGCCCTT CCCACTCACC CTGTGCATAG  
93301 CACTTCACAT TTTTACTTGA CTGCACAATC TGTCTGCTTT TCATTGGTTT  
93351 TCGAGATCCT CGAGTGATTT TTGTATTTTG TCTGACATTT TTCTTCTTT  
93401 TTTTTTTTTT TTTAATTGA TCATTCTTGG GTGTTTCTCA CAGAGGGGGA  
93451 TTTGGCAGGG TCATAGGACA ATAGTGGAGG GAGGGTCAGC AGATAAACAA  
93501 GTGAACAAAG GTCTCTGTTT TTCTATGCA GAGGACCCTG CGGCCTTCCG  
93551 CAGTGTTTGT GTCCTGGGT ACTTGAGATT AGGGAGTGGT GATGACTCTT  
93601 AACGAGCATG CTGCCTTCAA GCATCTGTTT AACAAAGCAC ATCTTGACC  
93651 ACCATTATTC CATTTAACCCT TGAGTGGACA CAGCACATGT TTCAGAGAGC  
93701 ACAGGGTTGG GGGTAGGGTC ACCGATCAAC AGGATCACAA GGCAGAGAA  
93751 TTTTTCTTAG TACAGAACAA AATGAAAAGT CTCCGTGTC TACCTCTTTC  
93801 TACACAGACA TGGCAACCAT CCGATTTCTC AATCCTTTCC CCGCTTTCT  
93851 CCCCTTTCTA TTCCACAAAA CCGCCATTGT CATCATGGCC CGTTATCAAT  
93901 GAGCTGTTGG GTACACNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
93951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
94451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

94501 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94551 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94601 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94651 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94701 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94751 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94801 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94851 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94901 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
94951 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95001 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95051 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95101 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95151 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95201 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95251 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95301 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95351 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
95401 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NCTTTTTTT  
95451 TTTTTTCTT TAAATCTTCA TAGAATGTGT CTTTACAGCA TGGGAATTT  
95501 TTTTTTTTTT TTTTTTTTGC TTTTCACTAT ATACAGCTAA TGGCTTTTAC  
95551 TTATTTTCAT TTAGATCTAA GAACACATTT TAACAGTTAC TGCTTCCTAA  
95601 TCTTGCTTAA TCTGTATTAA AGAAGCATTT GGAAATTTAT AATTGTCTT  
95651 GACCTTGGAG GTTGTGTTTC TCAACCTTTT TTTTCTGCA ATATGTAGTA  
95701 TCTTTAGTAA TTTTGTACAC TTATGATTTT TAAACAAAT ATGTGTCTT  
95751 TGAACATTGT TGAAGGTTA GTGTATGACC CCACAAAGAA TTTGGAACAG  
95801 GTGCCAGCCC AATTGTGACT GCCTGACTTC TTGTCTTAC ACTGGGAGTT  
95851 GTTAGCATGA AAAACAAAA TGTCATGGCA TTTTCTCTAA AATAACTT  
95901 TGAAAAGAAT TTTTGTCCCT GGTGGTAAAA AACTTGGCAC CCAGCAAGCA  
95951 AGAGGATCTT GACTCATAGA TGTATAAAAA CATTGTCAGT GCCCTGGAG  
96001 CTAGGGAATT CCTCTCTCAT AGTAATTTT CTAATGTCTG TAGCTCAGTT  
96051 CATTAATTTT TATTTTGCTG CCTTGGAAAT TGCCATAAA AGTATTTTTT  
96101 TTTCTATTTA TTTTAACTT GATCATCAAG TTCCTTGGCT TCTATGGGTG  
96151 TATCTTTTGA ATTTTGTGTG TTGTGTGTTT ATTTTGTTTT GGGGTGTTTG  
96201 GCTAGGAAGA ACTAACTATA GGATGTTTGT CAGGGACATG TTCCTTGGGA  
96251 AATTTATCTC ACTGCTCTGT GCTTGTGTTG CAGCTGTTCT TGCACTTCTG  
96301 ACTTTAATTC AAAAAGTTAT AAAGCCATAT GTGAGCAGCT GTTCACTGTT  
96351 TGCATTAGGG CAAAAAAGA TCGGATGCAA ATATTATCAG GAATGATTTA  
96401 GGTATATTG TAAAAAAT TTAGACTATA TTGTAGGAAT AATTTTACGG  
96451 TAGTTATGAT ATATTGTAAG TTATTA AAAA GAAGTTCTA GAATTA AAAA  
96501 CAATTTTAAG CATAAAGTAC TATTTGTTGA AAGATGAGAG GTGTTGAAAG  
96551 ATGATATACT GTCTGAAGGT AGGATAGTGA AACAGCTAGC TTTTGAATTC  
96601 CTCTTCTAGT TCTAGGATTT TATGATTTCA TGGTAGTGT TATCCTTCTC  
96651 TACAGACTAA CTTTTCCCAT GACTTCTAT GCTTTAGAAC TCTTCTGTGT  
96701 AATAATAAGC TTTTTTTTTT TGAGACAGAG TCTCGCTGTG TCACCCAGGC  
96751 TAGAGTGTAG TGGCATGCTC TTGGCTCACT GCAACCTCTG CCTCCAGGT  
96801 TCAAGCGAGT CTCCTGCCTC AGCCTCTTGA GTAGCTGGGA TTA CTGCGAT  
96851 GCACCACCAC GCCCAGCTAA TTTTTTTTTT TTTTGTATT TTTAGTAGAG  
96901 ATGGGGTTTC ACCATGTTGG CCAGGCTTTT TAAGCTGATT CATATTTATT  
96951 TGTGAATTAT TATCATAGCC ATAGAAAGAG TTATCATTTT TTTGGCTTTC  
97001 AGGTACTAAA ATCAAAATGC AAAATTGGTT TGCTTTAGT TTAAGTGAT  
97051 CAGAACAAAA AAAAATTAAG ATAATTTAAT GGCTTATCTT TTTCAGTAGT  
97101 CCTCCAGAAT ATAACTTTA TAATCATCTC TCAGACATTT AAATAAAGTA  
97151 TCTAGTATTT ATTAATATT TACCACATGC CAGGCAAAGT ACAATTAATT  
97201 TAACATATGC TCTCTGTTT AATTCTCACA GTGATCCTGA GACCTTAGGG  
97251 TTTATTATCC CCATATTATA GAAGAGGAAA AAGTTTAGAG AGTTGAAGTA  
97301 AATTACCCAA AGTCACATAG TAAGTACTGG GTCTGAGATT TGAACCCAAG  
97351 ACCATTTTTT TTTTTTACCA AGTTCTAAAT TTTAGAAGAT ATTTACTATA  
97401 TCAAAAAAGT ATGAAGTTAA AAAGAATCAG AATGTAAAAAT TGTGAATATG  
97451 TTA AACCAT CACACATG CACACATG TGTTTGCA TTGGAGAGGCT  
97501 AGAAGGTCCT ACACCAAAAT ATTAACAAGG ATTACTTTTA GGTATTGGCA  
97551 TACAGATAAT TCTTACATCC TTCTTTATAA TTCTTGTAG GCTATACTTC  
97601 TTATATCTGC TATCTCATA ATCAACAAGG TGGGAATTGC TGCTATTTTT  
97651 ATATTCTAAA AACTTGACAT CTTACATGTA TGCAATTTTC AAATCTGTCT  
97701 TCACTGTCTT ATTTGAGAAT TATAAAGCTG TTTTTCAGTA GCTTTTGTAT  
97751 TAATTTGTGT AAAGACAGAT ATTTTATATA TTTAGAGACT CTCTTTTAGG  
97801 ATACTTTTCT TATTTCTCTT TCTAGATTTT AGATTTTTTG GACATTATTG  
97851 CACTCATCTT TGTGCCCTTA CAGTCTCTAG GACAAATCCT GCACATAGAA  
97901 GACATTTCTT AAAATTGATT GAATTTATTT CAGTAGTAAA TTTTAGCCAC  
97951 AGTACAATAG TTGGAAAGAA TAAACGAATT ACAGTTGTAA TAATAAAGGA

FIGURE 3BB



98001 AACTTAGGTT AAGAAAATTT CCTAGATTTG TTAATCAGTC ATTTCTCTAA  
98051 CTTTGTCAACC TAGTCTACT AGGTGAATGG GTGGTTCCCT GACAACGTTG  
98101 GGCACCCATC AAGGCTTTTT TTGTTTAGTT TTGTTTTTGT TTTTGGCTGA  
98151 ACCTTTTAAAC TCCCCTCTG CGTCATGCTT TTCTTTTTTT CTTGACCACA  
98201 GCTTCTAGGA TCTTAGTCTG CTTCCTTGTC CTCATGCTTT TATATATACA  
98251 TACAAACACA AACACACACA CACACATGCA CACAGACACA CACACGAGTA  
98301 TGTCAAATGA TAAAAGTAAT GCAGTTTCAC TGTAGAAAAT TTTGTAATA  
98351 CCAAAAATTA TTATGGATAA TATAGAAATT GCTTGTATTC CTATCACTTT  
98401 AAAAAATAACA ATTTTGTAAA ATACATATAT GTGTATGTGG TTTTTTTTTT  
98451 TTTTCTGAGA CGGACTTTCA CTCTTGGCGT TCAGGCTGGA GTTCAATGGC  
98501 GCGATCTCGG CTCAGTGTAA CCTCCGCTC CCTGGTTCAA GTGATTCCCT  
98551 TGCCCTAGCC TCCCGAGTAG CGGAGTTTCC AGGTGCCGGC CACTATGCCT  
98601 GGCTAATTTT TGTATTTTTA GTAGAGGCGG GGTTTCACCA CGTTGGCCAG  
98651 GCTGGTCTTG AACTCCTGAC CTGTGTGTGT GTTTTAATTG GGATTATAAT  
98701 GTATTAATAAT CTTATATTC TGCTTTTTTA TTACATAAAT TTTTCAAAAA  
98751 TATAAAATAT CTCTAAAAT TTATTTAATT TCTATATGAT TGTCCATTCT  
98801 TTAAGTATTC TATAATTCAT TTAATAGTTG TTTGATGTTT AGCATTGAGG  
98851 TTGTTTCTAG GTTATTTTCT GTCATACAGA GTGTGTGCC ATGAATCTTT  
98901 GAAGAAGAAA TCTTTTGTG TTTCTGAAC TGTTTTGGGA GGATAGTCTA  
98951 GGAAGTAATA TTACTAGGTA AAATGTATGA ACTTCTAAAA TATGTTGCCA  
99001 AGTACATTTA ATAAACATTA CGATTTTTTT CTCTACCAG TGTGTGACAG  
99051 TGTGACTCA TTGTCTATCA CTGGCCTTGA GAAGTCCATA TTTTACTCTT  
99101 CGCTAATTTT ATAAGCTGAA AACAGCTTTT CACTATTTTA ATTTGGATGT  
99151 TTTGGCTTGT ATTAGTAGAG AGTTGAGCTT TTTACCCCA TAGTTTGATT  
99201 TTGCATTTCT TTTTGTATC ATCCATTTCC TCTTATATTC CATACTGTA  
99251 ACGGTACCTT TCCCAAGCTA GTTATTTAAG CTTTTTTTAA AAAAAAATTT  
99301 TAATGATTTT TGAATGGAC TCTTTGAGCT TTTTTTTTTT CTTTTTTTAC  
99351 CTTTTCCCTT TTTAAGATTT TTATCTTAC CTATTAGGAA GACAACAAGG  
99401 TATATCTAAT TACATGACAA ACAGTCTTCA CCAAGAAGCC AGAATCTTAA  
99451 ATTTATAGCT CACTGTTGCC ATCTGAGATA TAAATAGAAC TTCAGTTACT  
99501 GTGTGTTGCT TTCCATTAAG TCTACTTCTT TGCTCTTCTT AAACCCCACT  
99551 ACTCCTTCTT TAATGATAGC CCTTCTACGA ACACATGGAT CTTAATAGAC  
99601 TATAAGAATC ACTTGATTGA TGTGTTTCAT TTACATTTTA GAGAACTTCC  
99651 ATAATAAATA AAAGCTCTCT CAGTGTGTCT CACAGAGAGA TTATCCACA  
99701 AAGAAATGTT CCTCTTTGAG CATTTTCTTA TATTTCTTCC TGTCTTCAA  
99751 ATAAGTCAGA TCATTTAATT TATTTTAATC TTTTCTGTTA AATGCCAGTA  
99801 GTACAAAGTC TCCATATAGT CAGCAGTCTT AAACAGCCCA GGAGAGGGGA  
99851 CCTCTATAAT AATGGAATGC CAGTAACCAA AACAGCATGG TACTGGTACC  
99901 AAAACAGAGA TNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
99951 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
10001 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
10051 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100101 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100151 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100201 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100251 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100301 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100351 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100401 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100451 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100501 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100551 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100601 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100651 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100701 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100751 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100801 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100851 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100901 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
100951 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
101001 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
101051 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
101101 NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN NNNNNNNNN  
101151 NNNNNNNNN NNNNNNNNN NNNACGAGAA AGAACTCTCT CCACCAGTTA  
101201 GTAATGAAAT GCAGAAGTGA AACTGAGTAT CCTATACCTA TAATATTTCC  
101251 TTCTAAGTCT TTCTTTGCCA TTGTCACTAG GAGAGTTGGC ATGCAAAAAAC  
101301 ATCTTGAGAG TTGCACATTT TAATAAATTA TTTACCTTTT CCACACAGGC  
101351 CTTGATAGTC ATATAAATTC AGTCTTGCTC AGAGTTGTCC AATCTTCTGG  
101401 CTTCTCTTGT CCACATTGGA AGAATTATCG TCTCGGGCCA CACATAAAAT  
101451 ATACTAACAC GGGCTCCGAG CAAGATGGCA GCCTCCGAGC CGGTTAGGCT

FIGURE 3CC

101501	ACAGCTTCAA	TATGATTACC	CACTGCCAGC	TACCCCTGCAC	TGTACGGCCT
101551	TCCTGGCTTC	TGGTTGACTT	GAACAGGGCG	CGAGTTGTCA	CAGATCTCAT
101601	TAGTCTCATC	CGCCAGCGAT	TTGGCTTCCG	TTCTGGGGGC	CCTCCGAGGC
101651	CTCTACCTGG	AGCAGGGGTT	CCTGCCCCCC	ACCGAGAGCG	CATGCCCTGAT
101701	GAGAGACAAT	GACTGCCTCA	GAGTTAAATT	AGAAGAGAGA	GGAGTTGCTG
101751	AGAATTCTGT	AGTCATCAGT	AATGGTGACA	GTACTCATTT	ATCACTTAGA
101801	AAAGCAATGA	AGTGGGCATT	TAAGTTAGAG	GAGGATGAAG	AAACTAACCC
101851	AGATTACAAC	TATTCAAAGA	AGCATTGGAA	GAAGCAAGAG	TACAATAACA
101901	ATAATGAGAA	GGTCTTGGAT	CTAGAACGAA	AAGCGGTCAC	AGATCAGACT
101951	ATAAGCAAAA	AAAAAAAAAA	AGAAACAAAA	GAATAAATAA	AGCAACCTGT
102001	GGCACAAACGG	GTGATGATAA	CGAACAGACC	CCCCAAAAAA	AATCACCAAA
102051	GAAAAAGGAG	AAATGTGAAT	ATGAAAAAAA	GGCCAGGAAT	CCCAAGTCAC
102101	CTAAAGTACA	GGCAGTAAAA	GACTGGGCCA	ATTAGAGATG	TAGTTCCTCA
102151	AAAGGCTCTG	CTAGAAACAG	CCTTGTTAAA	ACCAAAAGGA	AAGGTGGTGT
102201	AAGCGTTTGC	TCAAACGAGA	GTCCAGTTTC	CTCCTCGGAG	TCTGAGTCTT
102251	GTCTCAGATC	CAGATGATG	GTCCAGCAA	AGTCACTTTG	GAGGCCAGAA
102301	ATTCTCAGA	GAAATTACCA	ACTAAGTAAT	CAAAGGAAGG	ACCCCTTACC
102351	AAAAGTACAA	CTGCAGACAA	ACTGGCTACA	AAATCTGGCT	TTAGCCTTAA
102401	CCCCCAGCAA	GGGCAAGACC	TCTGGAACAT	CATCTTCTAG	TTGAGATTCT
102451	GGTTCAGAGT	CAGAGGTGAA	TGCTTGATGT	CATCGAGCAC	CCTGGAGTGT
102501	GCTGTGGATT	TCTAAAAGAC	AGTAGGCCTT	TTTGCAGGAA	GAGGTGTGCC
102551	AGGCCCTGGG	CTGTCAACAC	AGACTGCAGG	TGCTACTGGA	TGGAAGCGTT
102601	CTGGGTAAAA	TGGTGGCAGA	CAGGCTCCTG	GTCTTCTCC	CAGTGTGTCT
102651	CTCCCCAGTT	TAGAAAGAGG	ATGGGGTAGA	GGAGAGAACC	TTTTTCTTTG
102701	GAAGGAGCT	AGGGGACGGG	GAATGCGGGG	GAGAGGTCCA	GGACAAGGGC
102751	ATCCTGTTTC	CTGTGTTGTA	AATAGAAGCA	CTGACAACCA	GAGACAACAG
102801	CAATTAATAA	AAGTGGTAAC	AAATTCACTT	ACTGTTTTTC	AGAATCCGGT
102851	AGAGACACAC	TAGAAGGACT	GTATGGTCTG	TTACCGCTGT	TAACAGCTGC
102901	CCCTCAAGTT	GGAGAAAAGA	TTGCATTTAA	TCTTTGGAAC	TAACATCCAG
102951	TTACACTCTT	CTGTTGTCTC	TGATTACAAG	GAATAATATT	AAGCCACAAT
103001	CCAGAGACAC	AGCAAGTAGA	TACAGAAATT	CTTTCATCCT	TACCTGCCTT
103051	GAGAGAACCT	GGGAAATTTG	ATTTGGTTTA	TCACATTGAA	AATGGAACCG
103101	AGGTAGTGGA	GTATGCTGTG	ATGCAGGAGA	GCAAGATCAC	TGTATTTTGG
103151	GGAGAGTTGA	TTGATCCAAG	ACTGATTATT	GAATCTCCGA	TTAACACATC
103201	AAGTACAGAA	CCTGTCTGAA	TATGACCGCT	CCATCTTATA	GTTTATGAAT
103251	GTCCTGTTTG	TGAAAGTGAC	TATAACTTGA	ACTTTTTTTT	TTAAGAGGAT
103301	TTGAAAGTTG	TATGGGTTTT	TTTGTTATCT	TCACTTTACT	GCATAGGAAA
103351	CAATCTACCT	CATCATTTAA	AATGACATGG	GTGTGGTTTT	TGTAGACCTT
103401	TGGTTTTTTT	GTCAAGTTCA	ATTTCAAGTTA	ACAAAATGTA	AAACATGACA
103451	TTCCCTGCAA	ACGTTGTTGT	ATACCAATAC	GTATGGTTTC	TTCTCTTTTT
103501	TAAAAGTTTT	TGACCATCAA	GCAGCAGTTG	TCAGTAGGAG	TTTATAATAC
103551	CAAGAAATGTG	CTGCATATCT	TGTCTCATTA	AGTTTTAAGT	AACATTTAAA
103601	ACTATTAAAG	GTTTACTT	GACCTAATTT	TATAGCATTT	GAGTTGTCCC
103651	ATTAAATGGA	GCATCTCGTA	AATTTCAAGT	ATTTTATACT	TGGCAATGGT
103701	TAAGAGTTAA	AAGGTAGTTG	GATTTGTAC	AGACAATGAG	TTAAGGAATC
103751	CTTTACGTT	TTTCCCAACT	TTAAAATTAA	GGATTCTCAG	GGCCCTGTGT
103801	AGAGCAGTAA	AAATAAGACC	TGTTGTATGT	GTATGTGTGT	GTGTGTGTGT
103851	GTGTGTATGT	GTGTCTGTCT	GTCTGTCTGG	AGGAGAATTG	ATTGGTGTTC
103901	CACCTGGGTG	AGAGGGTTGG	CTGTGAGCCT	CAGACCAGGA	AATGTGTCT
103951	CTTGCCCAAGC	ACCTGGCTGA	GTGTGCTGGA	GTGAGGATTT	GAACAGAAAC
104001	TTCTTTTTCT	GTTATTATTC	ACTACAAAGC	TTAAGTGGCC	AAATATATAC
104051	TGTGAAAATT	GGTTTCTTTT	AACAAAAGAT	CAGATCCCTC	CTTCAGCTGT
104101	ACACATTTTT	AAATAAAATC	ATATAGAACT	AAAAAAAAT	ACTAACACGA
104151	ACGATAGGTG	ATGAGCTAAA	AAAAATTGCA	AAAAAATCTC	ATAATATTTT
104201	AACAGACTTT	ACCAATTTGT	GTTGGACTGA	AGGTTGGCCA	AGCTTGGTTT
104251	AGCTTAAGTT	ATATGGATTA	TTTGTACAAC	AGAATTGAGT	TGATTTCTGC
104301	GGTATTTTGA	AGAGTGAAAG	TGGTTTTTTA	AATTTGTACT	GTACTTATGT
104351	TATAAAGCAA	TATGAGTAAT	ATACTTTATG	TGTGAGACCT	TACGTGCTCT
104401	AAGAAATACT	TTTGTTAAGG	ATTTATATTT	ATGGTGGAGT	ATTGCTTACA
104451	ACATGGGGTC	TATACATACT	TGTAAAGAAA	TTAAGGATAG	AGAATGCATC
104501	ACTCAGACCC	CAATCTTTCC	ATTCATATAG	ATTGATTAGT	CATCACATAG
104551	TCCATATTTT	TCTACTATAT	TCAAGTCCCA	GTTGACACCT	TATGCATCAT
104601	ATTCTTAGT	TCCCAAACAT	GTTCCCTTAT	TTCTTTTCAT	GTAACTTTTA
104651	ATTACTCATT	TGTCGGAGTC	TGAATCCTGA	ATATTACCCT	TGATACCATT
104701	TTGTTTCCAC	ACCCCTCTCC	AAATGTAGCT	TTAAGTTTTT	CCTGTTTCTT
104751	TTTCTACTCC	CAGAACCCAC	AATTATAGCT	CTGAAGTATC	CTTCAGTGA
104801	GTTTTTCAGTA	TCTGCATGTG	TTTACTCTAG	CTCAAGGTGT	GTTTTTTTTT
104851	CTGATATTTA	TGTCATTAAT	TGATCTCTCT	GATGAATCTT	GTCAGAGAAA
104901	TCTTCCAGAA	GGACATTTCA	GACCATATTG	CTTCTAGAT	TAAAAAATCT
104951	CAAAGACTTC	CAAGAATGTA	CAAAGAATTC	TCTTGAATTC	CTTCTCTG

FIGURE 3DD



105001 TCTTCAGGGC CCTATGCTAT GACTTCAACT TTCTTTTATT TCCCTCCCTC  
105051 AAATATTTTT TCCTTTTTCC TTTTATACT TCCTTCCTTC TGAGCTTTCT  
105101 GTCACTTTTT GGCTGTACC TAGCCATTTT CCTGTTCTTG CATTTCCAAA  
105151 TCTCATCTAT CCTTCGAGAG TTGGCTTTTA CGTTTGCTTT CCAGCTAGAA  
105201 GTAGTCTTTT CTTCCTGGGA ACTCCCAATG GCCTTTTCAG TTTGTTATTG  
105251 TACTAGTAT CCTTTCGTGTT GAAGTGTGGT TGTTCATGGT TACTGGTTGT  
105301 TATAGTTAGT TCCTTAACGC ATGGATTCTT GTCTCATTAT TCTATTTCTT  
105351 GTGTACGTTT TCTGGTACAC GTATATTCTT AAGACATATA AAGAGCTGTC  
105401 TTGTTCTGGG GGTATTTCTT AGTTGAGAAA AATAAAACCT TGGGGATACT  
105451 TTATATGCTA AAGATAAAAA TGATTGTGTG TTCTATAAAG ATCTACAAAA  
105501 ATATGCTTGG AAGTAGTTTT GCTAAAAAAC AGGTATAAGA AATTAGATAT  
105551 ATAGATGAGA CCTTGGATGA CTTGACTCAA ACCACTTTCA GACAGATGAA  
105601 ACGTAACTTC TAAATCTTTC TAGAAGGTTA GATTTTACGA TATGCTCAAT  
105651 CATTTAAACA GTTATTTATA TGAGACTTAC AAGCAGAATT TTTTTTTTTT  
105701 TTAGTATTTT TACAATATGC AGTTCACATT TTATGTACT CTAATTTACT  
105751 TCTTGTATT TTTGGAATTT TTTAAAGGAT TTCTCTGATT CTAAATGGT  
105801 TCTATTTCTT TTTGCAGTTC TTCTGTAAAT GATATGTTTT TATTTTTTTT  
105851 TTAGTTCTCT GTTTGTCTCG GCAAAACCTA TATTTGGAAA ATGTTCTATT  
105901 TTTTCAGGTAT CCTGGTCAGA TATAGGAGGA CTGGAAAGTA TCAAACTGAA  
105951 GTTGGAACAG GCTGTGGAAT GGCCCTTAAA ACATCCAGAG TCTTTTCATT  
106001 GAATGGGTAT TCAGCCACCT AAAGGAGTTC TTCTCTATGG GCCACCTGGG  
106051 TGCTCTAAAA CAATGATAGC AAAGGCTTTG GCCAATGAGA GTGGACTGAA  
106101 TTTTCTAGCT ATAAAGGTAG GATGTTAAAT TTTTAAATCG CTACTCTCTC  
106151 TTGGCCTCCC CCAACCCCCA TTCTCTGACT CCTACCTTTA GGAGAACGAA  
106201 TAAAGGCATC TTAAGGAGCA GTGATTCTTT TTTTTTTATT TGATGTTGAT  
106251 GGCAATATAA TATAGGGAGA TGAGTGATAA GAAATAAATT CGTGCATGTA  
106301 ATCAGCAAAT CATGGTAGAC ATTGGGAAGA CTGCTTTATT TAGTTTTCTG  
106351 ATTCTGGTAT TTCTTATATC CATGTGTAAC AGAAGCTAAT CTTTTTTTTT  
106401 GTTTGTTTCT ACATTTTAA TTATAGACTT TTGCTTAAAC AGGACTTAAA  
106451 GATAAACATG ACAGTGAATT CAATATTTAC ATACCTAGAA TTTTCAAATG  
106501 AACAAGACAC TTGTTATGGT ACACTAAATT CTTTAAAAAT ACTTTTCCAT  
106551 TCAGAAAGTA TATGTGCATT GTTTTTATTTC TGAACCACAC ACACATTTTA  
106601 TTTGTTTCATT GCTTCGCCCC GATTAACCTG GATAGATAAT CTTTCATGAT  
106651 ATGTAGTTGT ACACCTACTT TAGGACCAGA TATTAATTTT ATGTAACATT  
106701 ATGATATATC CAGATACTTA ATCCACACAT ATAAAACTGT AAATCCATTT  
106751 CTGTGGACTG TATCACAATA ATATATACCT AAATAGATTA ACTATCAATT  
106801 CATTTACAGAA AAGGCACATG ATCATCTGTT TTGATATTAC CAGGGAATTT  
106851 TTTACATAAC AGAATGCATT TTCTTTAGCG TGATCTTGGC TCACTGCAAG  
106901 CTCCGCTTCC CAGGTTTCATG CCATTCTCCT GCCTCAGCCT CCCGAGTAGC  
106951 TGGGACTACA GGTGCTGGC AAATTTTTTG TATTTTAGT AGAGACAGGT  
107001 TTCACGTGGG TCTTGATCTC CTGACCTCAT GATCCGCTG CCTCGGCTC  
107051 CCAAAGTGCT GGGATTACAG GCGTGAGCGA CTGCGTCCGG CCCAGAATGC  
107101 ATTTTCTGTC TTAGAACATT GAAATCATTG GCAGTTTGAA AGCACAAAA  
107151 TTCAGAGTAG TTTGTCAACT TTTGGCTTTA CTTAAGATTT TTATAGAATG  
107201 ATACTTAGGT GTGATTAAGC TGTGTTGTTT TTAAGAATCA GTATCTTCAA  
107251 CATATTTTTT ATTTTCTGGA AGATATTGGA GAGTAAAGAT GGGGGAGGAG  
107301 ACCATTTACA GCATGATCAC TTATGGGGAA TCACAACCTAC AGTTTTAAAG  
107351 GTTTCAGGTT TATTTGTAT TTTTTTGAGA CATGGTCTCA CTCTGTGGCC  
107401 TAGGCTGAAG TATAGTGGTG TGATTATAGC TCACTGTAAC CTCAAATTCC  
107451 TGGGCTCAAG CTATTCTTCT GCCTCAGCCT CCTGAGCAGC TAGGACTACA  
107501 GGTGTGAGCC ATCACACCAG CTAACTTTTT AACATTTTTG TAGAGACAGG  
107551 GTCTCACTGT GTTGCCAGG CTGCTCTCAA ACTCCTGGCC TCAAGCAGCC  
107601 CTCCCACCTT ACCCTCCCAA AGTGCTGGGA TTATAGGAGT GAGCTGCTGC  
107651 AACACAGCAA AGGTTGCGGT TTTAAGGGTT GAAGTAATGA GTGATTTTGT  
107701 CACTTCCAG GACAACCTGA TTTCTCCTTG GTCCCTGTCC TTTTATCATG  
107751 TGGTAATGGG GATGGCTGTG TTTACTGGCA TTTTCTAGTC TTTTACTCT  
107801 CATCTCCATT TTTCTGTTT TTACCTGTA TATTTACAA TTGTATATT  
107851 ATAGTATTAG AATTTTTCTT GTCTACTGGA AATCTAAAT TTATTTAAGA  
107901 ACCTGTGAGC GAAGTCTTCA TCAGATAAGT TTTGACTTA ACTCTTAAGA  
107951 GCACACTTAT TTTCTTACAA ACTAGTATCT TACTTTTTCT GTGATCCAAG  
108001 GTAATAATT TAGATACTAC TAAGACTGCT TTCTGGACTA TCCTAGAAAT  
108051 ACTTAGAAAT ATATTATTA TCTTTTTTGA ACATAAACAT TTCATAACCT  
108101 TAGACAATTT CATTTTATG CTTTTTTTCA CTATGAGGAA ATTGTAAATG  
108151 ATTCTTTGAA AGGTTTAACT TTGTACACTG CTATATAAAA TAACCAGGCA  
108201 CACATTCATT TATTTGAGCT TTTTCATTAG ATTTTATAGT CACAGACAGA  
108251 AAAGCCACAT GATTGTAAACA AATTATCTTC ATCAATTGAG TTCATAACTC  
108301 AGAGATTATT ACATGTCCTA GTTACTAATT TTGATTTAGT GTGGATTTTT  
108351 ATTCAGTTTA GAATTTAGTG TGGTTGACA GTATTATTCA ATTTTGAAT  
108401 CTGTATGGAG GGATATACTT AATGAATGAT GGGTTTTTAT TTTTCAAAT  
108451 GAATATCCCT TATCAAAATG CTTTGGACCT GAAGTGTTTA GATTTTGAAT

FIGURE 3EE

108501 TTTTTCAT TTTGAAATAT TTGCATTATA CTTCCCAGTT GAGCATCCCT  
108551 AATCTGAAAA TTTGGAATCT AAAATGCTAA AGTGGGCATT TTTCTTGAGT  
108601 GTCATGTTGG AGCTCAAAAC GTTTTGAATT TTGGAGCATT TTGGATTTTT  
108651 AGATTTAGGG ATACTCAACA TGTACTATTC GTTCAACTCT CCTATAGGTT  
108701 TAAAAATTTT TTAATACAA AGTTGGGAAT ATGAAAATAA TTGTCTTCT  
108751 ACTAGCATTT TCATTGGTCC TTTTATTTTC ATCTATTTCAG TGTTTGAG  
108801 GAAAGTTTTA AAGTAACAAT ACCATACAGC TTATGTATGA GAAAATCGAG  
108851 CCAAAGAAGT TGGGAATTCA TACTCTGTTC TCTTTTTTTT TGAGACAGAG  
108901 TCTTGTTCTA TCGCCAGGC TGGAGTGCAG TGGCAGATC TCAGCTCACC  
108951 GCAGTTCCCA CCTCCAGGT TCAAGAGATT CTTGTGCCTC AGCCTCCCGA  
109001 GTAGCTGGGA TAACAGGCAA GCACCCCAAC GCCCAGCTAA TTTTTTGAT  
109051 TTTTAGTAGA GACAGGGTTT CACCATGTTG CCCAGGCTGG TCTCGAACTC  
109101 CTGAGCTCAG GCAATTTGCC CGCCTCACC TCCCAAAGTG CTAGGATTAC  
109151 AGGCGTGAGT CACTGCACCT GGTCTGTTC TGTTAATTT TAACCTCCTG  
109201 TTTAAAAAAC TTGGCAACTT TTGTTCAACC CAAATGTTTG GTTCAACCT  
109251 ATATATTTGT TTTCTACAAG CTTTAAGTGT TAAAAGTTAG TTTGAAATTT  
109301 TGAAATAACA AATCTTACAC ATTTTGAAAG TGATCAGAAA AAGTAGACAT  
109351 ACACAGAAT TCTCTAGCCA GTTAGGAAAC ACAAGTATTT TAAACAGATT  
109401 GAAAGGAAAA ACTCCCTATC ACTTTTCACA ATGGTAGTTA CTACTTTTAA  
109451 TCTTCAAGT ATTTTGATAG ACTTACACTT CTTCTCTAA GTTTATGAAA  
109501 GAACCTTTTA GCTTCTCTA TGCATCTTTT CTGAACAGGG ATTTAAAGAT  
109551 ACGTACTGTA CTCAGGGTGG AGACTTCAGC TTGGCTTG TGAGCTCTTA  
109601 ATGCCCTCTG GCATATATAT GTTTTTTGT GTAGATTGTG ACATTTGACA  
109651 TACTGTGTAA GTTAGTTTG TTATCTGGC CAGTTACGTA AAATACTTTC  
109701 CAGTTGAAAT TTCTTTCTG CTTCTCTCTT GCTTTTGTCT GGAGTGCTAC  
109751 AATAGATTAA TTGCCCTGGG ATAGCTGCAT TGCTTTACTA TATGAAGAAC  
109801 TGTCACTAAT TCTGCAAGAA ATGTGGTTAG GTCTTTGACA GGGATTTTCA  
109851 GCAAATAATT ATCTGTGTAA ATACAGGAAT GTAATGAGCT TAGTATATCC  
109901 TTGACTTTTT GGGAAATTTT CTTCTCTATA CTTGTCTCAG AGAGGAATTG  
109951 TATAAAATAG ATTTCAATTC CAGAAAAACC TGTGGTTTAT TCAAAGTAGT  
110001 GCACAATTCA GAGTACAGGT GCTCCCAAT TTAAGATGGA TTTACTTAAG  
110051 TTTTCGACTT TACAATGGTG TGAAAGTGAT ATGCACTCTG TGGAAATTAT  
110101 ACTTCGAATT TTAATCCTTT TTTTTTCTT CTGAGACGAA GTCTCACTCT  
110151 GTGCCCGAG CTGGAATGCA GTGGCGCGAT CTCGGCTCAC TGCAACCTCT  
110201 GCTCCCGGG TCTCAAGCAAT TCTCTGCCCT AGCCTCCCAA GTATCTGGGG  
110251 TTACAGGCTC CCAAGTATCT GGGGTTACAG GCATCCACGA CTATGCCCGA  
110301 CTAATTTTTG TATTTTATG AGAGACGGGG TTTCACCATG TAGGCCAGGC  
110351 TGGTGTGGGA CTCCGACCT TGTGATCCAC CCGCTTGGC CTCCCAAAGT  
110401 GCTGGGATTA CAGGTATAAG CCACCACGCC AGGCCAAAT TTTAATCTTT  
110451 TACTGAGCTA GTGATATGCA GTACAGTACT CCCTCATGAT GCCTGGCAGT  
110501 AACAGTGAGC CACAGCTCCT GGTCAAGCAT TGTGATCATG AGTGTACACA  
110551 GCCAACATTG TAGAATGTAC TGTGTTGCCA CGTCACTTTT TCCAACGTGA  
110601 GGCCAGTGTA AGCATTTCTG GCATGTTTAA GGTGGGCTGA TCTAAAATAT  
110651 GATGTTCAAG AGGTTAGGAG TATTCAATGC TTTATGACTT AGGATATTTT  
110701 CAATTTTTGA TGAGTTTATC AGGACATAAC CCCCTTGTA ATCAAGGAGC  
110751 ATCTGTAATT ACTATTTGTC ATTTAACTAG ATATATTAAT ATTCTCTTAT  
110801 CAAAGGTACA AGATAATCTG AAATTTAAAA ATTCCAAAT CATCTTTAGG  
110851 CTTCTGTTT TTAATTTTTG CATGGGAAGC TGCATAGCTC TTTAATTAC  
110901 AGAATGCTTT AAGATTACAA ATAAGGATAA TGATTTTAAG AAGGTTAAGT  
110951 GACTTTTCGA AGGTCTAAGT GGTAGTGATG GCACTGAAAT TTAGTCTCAG  
111001 AACTTTCTGA CTCAAGAGTC TGAGCTCTTA ACCACTGTAT TATATATATG  
111051 CTCTTCATT TCCTTTTTTG TTTTTTTTAA AAAAATAGAA CTAGTGTCCA  
111101 ATGGCTTTTT TCATTAATTA CACAAAGTTA CCAGGGAAGA TAGTTTAAGT  
111151 AGTTTCTGTA GGGTAGGTTT AGAGAAGTGG AAAGATGTTT CTGGGAAGTG  
111201 GTTTGAAAAA TAATTTTGTT TCTCTAGGAC AAAGAAAACA GAAAAATAAC  
111251 ATGGCTTTGG TCTAGGAGTA AAAGTTAATA GGAAAGGGCA ATCACAGCCA  
111301 AAGATACAGG AAAGTTTCA ATGAAATAGA AGTGCTTGA AAAAGACTGA  
111351 TGGTGGGATA ATGGGGAGCT TAAAAATTAC CTGTTAGTAT ATAATTTGTG  
111401 CCTTGATAT TGAGTATGTC ACGATGAAAA GAACACTAAG CTGGGATTCA  
111451 CATTTGTTGG ATTTACTTCC TAACCTTAGC ACTTTTATG TTTGCAGCCT  
111501 TAAGCAAGTT CTGTAAGTCT CATTTTTTTC ATCCAGAAAA GTATAACATT  
111551 TGTACATTAT AAGCTTTGGG GAGCATTATG CTTAAAAAGG CAAATGAAAA  
111601 AGTTTTTGGG GGGCATAACT CCCCACCTCT TGAGTGTGGG CTTCTTTCCA  
111651 AAGAATTTAA TATCAAAAGA GGGGAGGGGA AGAGCTACTG TACAATGGTG  
111701 AAACCTGACA AGCCGTGCCA CAGCCAGATG ATCAAGGTTA ACATCTTCAG  
111751 TGATAAGTCA TGTTGACAGT ACAGTTGATG CTTTGAACAA CACATTTTTT  
111801 TAATACATTT TTTTTTCAGT ATAGTTGCC TCCCTTATG TAGGTTCCAC  
111851 AACCACACAG AGATTGAAAA TATAATATTT GTGGTATATG GAAACTCCCA  
111901 AATAAGGAGG GCTAACTATG TGTCTCAGA TTCCACAGGC TGACTACAGG  
111951 ACTTGAGTAT GTGTGCATTT TGGTATTAC AGTGGTCTG GAACCAAGTTC

FIGURE 3FF

112001	CCGTAGATAA	CTGATAAATG	ACTATATATA	CCCTTGGATA	ATGTGGTGAT
112051	AATAGCACTT	TACTTCTGTT	GTNNNNNNNN	NNNNNNNNNN	NNCCTGAGTG
112101	CTCATAACCC	CTCTCCAACC	ATGAGAAAAA	TTTTAGGCAA	ACCCACGTTA
112151	AAAGACATTC	TGTAAAATCA	CTGACTAGTA	CTCCTCAAAA	CTGTGAAGGT
112201	TATCAAAAAAC	AAGGAAAGTT	TGAGAAACTG	TCACCACCAA	GACAGTACCC
112251	AAGAAAAGCAT	GATAGCTAAA	TGTAATGTTA	CAATATCCTG	TGTAGGATGC
112301	TGGAATGAAA	AAAAAAAAAA	AAGGACATTA	GGGAAAAATT	AAGGAAATCT
112351	GAATAACTAT	GGTCTTTAGT	TTAATAATAA	TATCTCAATC	TGGGTTCACT
112401	GATTGTAACA	AATATACCAT	GCTAATATGA	GATAGTAATA	ATAAGGGCAA
112451	CAGTGTACAT	GGGTGGGTGG	GCATATGCGA	GCTGTTTGTA	CTATCTGCTC
112501	AATTCITCTG	TAAATCTTAA	ACTTTGCTAA	AAAATAAAAT	ATATTTAAAT
112551	AAATTTTGAG	GTCAGTATAA	TAGATCTGGG	CATATTGTAG	ATGAAGTAAT
112601	TGAAGTTTAA	AAGGCTAACT	CTGAGTTCTG	TACTGCAGTG	AACAGGATGC
112651	ATGGAGTAAG	GCAAAGAAGA	GTCATGAAGA	AGATTGTGGA	TTTCATGGGT
112701	GAGGGCTTTG	ATGACCTCTC	CTATTCATAG	TCCOCTGCC	CATAATGATA
112751	GTTGAAAGTT	ACTGGGAAAA	GCCCTGAGAG	GAACCTGGCT	GGGGAACCTG
112801	GGTTTGGGGC	TGCCCTGAAC	TTGCCGTGTT	CACTGCACCT	CTCAGTTGAA
112851	GCTATAAAG	GTGTGTGTTA	GTTCTGGCCC	CAAAACCCAGA	CCCCAACACT
112901	ATAAAGAACT	CTTTCTCTTA	GTGTTTTGGT	TATTTTTTCT	TTCACTTTGG
112951	GTGCAGCTTC	CAGTTTAGTC	TCACCAGGAA	CTATGTCATT	TCATGCCTTT
113001	TGTGGATCCT	AAGTCTGTAT	TCTCCTTCTA	TAGGTTTATT	ACTGTTTGGG
113051	CTCATCTAGA	GTCTGAAACC	TTTTGAGTTT	CTATTTAATT	TCCTTTAGAG
113101	TTTTGTTTTT	TTTTAACTTT	AAAAATTCCT	TTGACTTCAG	CAAATAGTGT
113151	TGTATTATGT	GCCTTATTTG	CTTAAATCGG	CAGTTATTAA	CATCAATATT
113201	AAACAAGAC	ATATACTTAG	TTTTATCCCT	GTTTGAATGA	CTATTAGGGA
113251	ATAACTAATA	GTAACCTGTT	ATTCTTGGGA	CAAGTGGAAAT	AGTTATTGTG
113301	CCATTGTCAG	TTTTACAAGG	TTATGAAGAA	GTTAGATCAG	ATTTACTTAC
113351	ATTTGTCATT	ATTTGTACAG	TATACTATGT	TAAAGTTGTG	GCATCATATG
113401	TTAAGACTAT	ATATATGTTA	TTTTTTTTGA	GTTGGGCTTT	TATCAGTTGA
113451	TAAAGCTGAT	ATATAAAAAA	AAGTCTTGAT	GTGAAAATAT	TCCATAAATA
113501	ACATTTATCT	AAAAGCAGAA	AATGACAATA	AGAACTATAA	CAAAACCTTT
113551	AGCATTTTGA	ATCTAAGAAG	ACCTAGAGAG	ATTTAGAAAA	AGAAGGATAA
113601	TTTTATAAGG	AATTTTATAA	GAAAAAGGAT	AATTTTAAAC	TTATAAGAAG
113651	TTTAAAAATA	AGCACATTTT	ATTGTTGGGT	TTAATTTTTT	ATTCATGGAT
113701	AAATTAGCTG	ATGTAGAGAG	ACTAGTTTTT	TCITTTCTATC	TCAATTCCTT
113751	TTTGAATGAA	ATTTAGAGGT	GAAATAAATA	TTACAATGTC	ATGTCTGTAA
113801	TACTTTTAAA	AATATTTGTA	AAAGTTTTAC	AATTGGAATA	GCAAAAATAA
113851	CACCTTCTGT	GTGTCAGGCA	CTGTGCATAG	TAAACAAAGA	TATATTAGAT
113901	GGGCTCCTCG	TTATGTATCA	ACTCATTATT	TAGTGGGAGA	GATATTTGAC
113951	TCAACAACCTA	ACATGAAGAA	ACAGTTAACA	GAATCTGCAG	CTCTTGGTTG
114001	TTGATTGTAT	GTGAGAAATG	AGAAAGAAAA	GCAGTCAAAG	GTGATAAAAA
114051	TTTTTACTGT	CAATGACTGG	CAGATGGAAG	TATCCTAACT	CCAGGGAGAA
114101	AAGGAGAAAC	AGGTTGGAGG	TGAGAGAGAA	AATACCAAGT	TTGAGTTTGA
114151	AAAGCCTTTG	GGACAAAATG	TTGAATATGT	CCTAAAGGCA	GTTGTATATA
114201	TGGATTTGTA	GCTCAAGAGG	ATGATTATTT	CGAGAGATGA	AAATATCGAA
114251	ATTGAGATGA	AAATGTGGAA	ATTGGAAATC	AGTGTTTGAG	ATTCTGCAGA
114301	CAAGTCAGCA	AAGGAGACTG	AGAGTGACAA	AAGTAGTCAT	TAATAGCAGA
114351	AGGGGATTTT	ATGGGCATGT	AAATATGTGT	AAATACACAT	TTTACAACCT
114401	GCCTAATTGT	AGCCAGCATG	GTCCCTGCAA	TGTAAGTTCT	GAAGAAATGT
114451	GTCAATTTTC	TTTTTCTCTG	ATAGAATGAA	TGAATTTGGG	GAAGGATTGT
114501	ATTATACTTT	TTGAGAGGAA	CAGCTCGAAT	TCTGTTCTCT	TCCCTGCCAG
114551	CCCTCTTTCG	ATTTTCAGGGT	TTTTACTTGC	CCACAGCATT	CTTGCCCTAGT
114601	AATTAACACC	TATTTTCAAA	CTCTTTGAAG	TGCTTTCCCA	GAATGGCCTT
114651	CTGTATGTGC	TGATACTGTA	CTTTTATTTA	ATTTTCAAGT	TCCTTTACTC
114701	ACATTACATA	TATGTAATTC	TATCTTATGT	GAGTTTGGAT	TTTTATGAGC
114751	ATATTCATA	ACATTTAACC	ATAGTTAACA	CTTAGGTTAA	CGTGCCCTTC
114801	CCAGACACTT	TAGAACTTAT	AAAAACTTCA	TTTGAATTGT	AATAACTAAA
114851	AGCACCAGGC	AGGTGTCAGA	CACATTTAAA	AAGCCCTTGG	GAGGACTGAA
114901	AAAAACCCAG	TAGTGATTAA	AGGGGCAAAA	TTGTAAGAAC	ATGAGGTGTA
114951	AATGTTATAC	TGAGTTTGT	GACTGATATG	ATGTAATAA	ATGAAGCACA
115001	GTAATAAGAT	AAGTCAGGTT	TACTTCTCAC	TAGATTAATA	GAACAGCTGG
115051	ACAAATATTT	TCACATGTGT	TTATGATATT	TTTGTATTTT	TGTAAACTTG
115101	GATACTTGAA	ATATTGGCCA	TGGAATGTTA	AAAATAATGC	TATTAATAAT
115151	AACTCAATTA	ATGGTACTTA	TTAATGGCAG	TTTTTCTTGA	TCATTTCTAT
115201	CAGTAAAGCA	CATGCTATCT	AGGAGGTAAA	ATATGTGGCA	AGACTAACAT
115251	ACATTCTTAA	AAGTAACATA	ACTTATGAGC	AAATACGGGA	CTGAGACTAT
115301	ACTATATATA	CCTAAACTCT	GTAGTTAGAT	ATAAATGGTC	TCTTGTATTAT
115351	AACGGGTAAT	AATAAAATTC	TTATTTTCAA	ATTAGCCTAT	GCTACTATCT
115401	ATTAAGAAAG	AATTATACTT	CACCTTTGCC	ACTCGATCTG	CTCACCAGAA
115451	ATACATTTGA	ATTTGAATTG	CTGGTACTGT	GTAATACTTT	GTTTTAAATT

FIGURE 3GG

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115501 TAAAAAATTA TTTTTAGCAG CCAGCTTTGT CTAGCCCCAA ATTAACCTTC  
115551 ATCTAAAATC TTAACGGGAC ATTTTCATTT TCTTTTAAGG ACTTAGAACA  
115601 GGACATCATA ATTCTTAGAA AGAGTGCTGG TTTGGAAACC ACAATTCTGC  
115651 ATTCTTATCA TTTCTGCCAT TTAAC TAGCT CTAGGACTTT TGGCATATTA  
115701 CTCAGCCTCT TTGTACTTTG CCTCAGTTTT AGGTGAGTAG GTTAGACTAA  
115751 GTGACTCCTA AAGCCCTTCT GCTAATAACA TTCTATGAGT AGGTCACAGT  
115801 ACTTGTACTT TAATCTGTTG CATATCTTTT GTGCCAATGG TGGCCAAATA  
115851 TTTGGGGCAG TTTCTCTAAC TGTCAAGTGT AATAGTTAAA AGACTTGTAT  
115901 CCCAGTTCTG CCATTTGCTA AGCTGTGTGA CTTTGGACAA ATTACTTCAC  
115951 CTCTTTGCAC TTAATATTTT TTTCTGTAAA ATTGTAGTAA CAGTGTACAA  
116001 CTCAGAAGAC TGTGTCAAGC AGTAAAAGGG ATAAGACATA GTAAGCATAT  
116051 AGAAAGATTG CACAAAATTA GTACATGCTG ATTGCTGCTC TCTTCCATTT  
116101 TTAAGAAATT GATGTATGTT TGACCTCAAA TGGAGCAAAA ATATGACATC  
116151 ACAGCTTATG ATTCCTTAAG TTTTCTGTTA GTAGTAAAGT GTAATATTTA  
116201 TCTTTGAAAC TGAATATAGA CTTTAAACT CTTTGTACCA AAATACAGTG  
116251 ATTTTGGGCA ACTTAAACTT CAAGCTTAAA ATAACCTCCC TTGGTAATGA  
116301 AATTGCTGTG GATTCTCATA AAACCTGAGA CCAACGCAAC ATACGAGTTC  
116351 AGCTACTTGG GTTGCATTTT GCAGGCCATC TAGGTAAGAT TCATCAGTAC  
116401 ATAGTCTGTG ACAAAGTCAT ATTTTCTAGG GACCCTGCAG TCTTTTCATT  
116451 ATGCCCTTAT AGTAACACTT GACTTGAATT ATTCCAATGC GTATTTTCTT  
116501 CACAGTGCCA GATTTTCAAG TTAGAGTTTC AAATGTCCTA ATTTTCTTTC  
116551 TTTCTGTTTT GTTTTGTITT GGAGGAAGAA GCATTGTTTC ATTCTTATCC  
116601 ACAGGTCCTG TAGTCCACCT TTCTGTGGCA GTGGAGTGAC CCTTCAATTG  
116651 GTTGAGGCTT TATACTATAT TTTCACATTT TCAAAACAAAG TATCAAGAAT  
116701 GTTTACCTGT ATGTTGGATA TTTATTAATA AACCATATTA ATCTTTCTAT  
116751 TGATACCAAG ATATTGACAT TGTACTTAGC AGAGAAAAAA ATCATGAAAT  
116801 GACCATAATC TTGTACTTTC TAACATTAAT GCCTAGGTTA TCTTCATCAT  
116851 CTACAGAGAA CAATGACCAT TTTTCCAGGT TCTCTAATCT CTTTCCITCA  
116901 GTTAAGCCAG ATAATTAATA AGCAGTATAT ATACATTGAG TTACATTGCC  
116951 TGAATAAAGA AATCTCTTCA CTGGATTATT ATTTTATGCC ATATCCTTGG  
117001 CTTTTCGAGA CAATTGCTGT AAGAACAACA GCAATAATGT AGAGTTGGCA  
117051 TGATGGTAAT TGCAATAAAA ACAGTGACCC CAGCAATTTT CTTTCTGATT  
117101 ATTGTCAGGC CACAGTTTGC CTAGGTAGTT GCTCTAAACT GAATAAAATC  
117151 TGCATACAAA TTTCTTACCA CCCCTAACCC CTCAACAAAA ACACACTCTG  
117201 CTGTTTATCT AAAGCTTGT TATTGGGTG GGCCCTGATC CTTGTTTTAG  
117251 TGTTCACTTT CTTAATTCCT TGTCCACAGT CCCCTTGTG TAAAACTTAA  
117301 TTTACCACAT GTAAATGAAA AGTACTAGTT TTGTTTATTT GACTTTATAT  
117351 TATGTTATGA ATAGGCATTT CTGTCTTTGT ACTACAATCG TTTTACAGC  
117401 CCTATACTAC AGGCATTTCT TGCTTTGCAG TCTAGTACAA AGCAAGTATA  
117451 GGGCTGTAGT ATAGGGCTGT AAAAAATGATT GTGCAAGGTG AAATTATGCA  
117501 GAATGATCTT AATCAGTGGG AAAAAATTACA AGTGTACAT AACTTTTAAA  
117551 CATTTTGTCA AAACATTAAG AACGTTTATT CTGTGTTATA AATGTTGAGG  
117601 CAGTGCATTT TGGCTGTATA ACAGATCCCT TGCTAGTTTC CCTACCTCTT  
117651 AACTTATTTT TTTGACTAGC CCTTCATTCA CACACTGACA GCCTAGTACT  
117701 CCATTTTATG AGGACACAAC AATTTATTTA CTCATTTTFA TGTTAATGAA  
117751 TTTTAAAGAC GCTTCCACCT TTTATTTTTA TTGTTGTTAT AAACAGTGCT  
117801 CAGTAATATT CTTATTCATT TTCTTTTGTA TATTGGTAAG AGTTTCTGTA  
117851 GGGTATACGT ATCTAGAAGA AGTTGTTATT GTTATTGGAC ATGTACGCTT  
117901 CAACATTACT AGTAGTTTGG AAATTGCTTT TTTTGTGTGT CATTAATTTT  
117951 TTTTGTCTAA TTTGTATCAA TCAATTTTTT AAATATTTTG AAGATTGTTT  
118001 ACTCCTTAGC AATTATGTCA TTGACATTTT TGATGACTTT TGATCTTATA  
118051 GACAAAAGTG AACTCTTTCA AATTATATGA GATTAATCTA CATCAGAGGT  
118101 CATAGTCTTT AGACATAATC TGGCCTGCAG TGTATTTTGG TCCAGCTCCC  
118151 TAGCTAAGAA TGAATTTTTT ATTTTTAAAG GGATATTAAC AAGAAGAATA  
118201 TGTGACAAAG ACTTTATGTG GCATATACAG CCCAAAATAT TTAATCTCTG  
118251 GCTCTTTATA TTTGCTCTTT TTAGATCCCA CAATACGTGG AAAACTGCCT  
118301 TCAAGTTTAT TTACCTCAGT GACGGCTGTG GGTGTAAACA TTGTGTCGCT  
118351 GTTACATAGT CTAACCTGTA TCTAAAAATA AGCTTGTAAG ATTGATTTGG  
118401 TATTGTTTCT TTTTCTTCAA AATCCTTAGA AGTATGAGAA CATTTTGCCT  
118451 CAGCATAATT AATGTTTCAT TGTTTGTCTT TTTTAAAGTT AAATCTGTTT  
118501 GGTAGTTGCA TTATTTAAAA AATTGAGATA TGGAGTATT GGTGATTAAT  
118551 TTGTAATTAT TAAGTCACTC TGTAGTATCT TAAGCTTAAC AATAATTTTA  
118601 TTGTGGAAAC ATGATTGCTT ACAGTTTAAAG TACCAATGTA CAAATAATTG  
118651 ATATACTAAT TATAAATAAT TACTCATCCA AAACACTGTG CCAAGCAAAT  
118701 CCTTGTTTAC TTATGGATAC ATAATCACTT TGCTATTTTG TGTATTCTGT  
118751 GGTTTGTAGA TTTTCACTCAG TGATGTAAATG ATATTATCTG TCTTAAATGA  
118801 AAGATAAATAT TTTTAAATAT TACTCTTCTT TTTTATAATT TTTTATTTAT  
118851 TATTATTATT ATTTTGTAGA CGGAGTCTTG CTCTGTCAAC CAGGCTGGAG  
118901 TGCAGTGGTG CAATCTCAGC TCACTGCAAG CTCCACCTCC CGGGTTCAAG  
118951 CCATCTTCTT GCCTCAGCTT CCCAAGTAGC TGGGATTACA GGTGCCCGCC

FIGURE 3HH

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119001 ACCAGGCCCA GCTAATTTTT TTTTTTTTTT TTTTTTTGTA TTTTLAGTAG
119051 AGACGGCGTT TCACCGTGTG AGCCAGGATA GTCTCGATCT CCTGACCTCA
119101 TGATCCACCC ACCTCGGCCT CCCAAAGTGC TGGGATTACA GCGGTGAGCC
119151 ACCGCGCCCG GCCTATGATT ATTCTTTTCA TGTATCTGTC TCCTAATTAG
119201 CCTCAAATAT TGATTTTTAG ACTATGTATA ATCTATTACT CTGAAACAGT
119251 TTTTGGGGT TTTTGTGTT GTTGTTTTTT GTTGTTTTTT TGAGACGGAG
119301 TTTGCTCTT GTTGTCTAGG CTGGAGTGCA ATGGCGTGAT CTCGGCTCAC
119351 AGCAACTGCT GCCTCCAGG TTCAAGCGAT TCTCTGCTT GAGTCTCCCA
119401 AGCTTGGATT ACAGGCATGT GCTACTACTC CCAGCTAATT TTGTATTTTT
119451 AGTAGAGATG TGGTTTCTCC ATGTTGGTCA GGCTGGTCTT GAACTCCTGA
119501 CCTTAGGTGA TCCGCCACCC TCAGCCTCCC AAAGTGCTGG GATTACAGGC
119551 GTGATCCACT GCATCTGGCC TGAAACAGTT TTTCAAAAAG ATTAATCATC
119601 TTGGGTTAAT AGAAAAAAT CAGGCAGAAA GATAAACTA CTCTGTCTAT
119651 TACTTAAGGA TTCTGTGTT TATGCTATTA GGTATCTCCC TCATCTTAAT
119701 TGAATATGAT GCAAGGCAGT GTCCTTGGTG GAAGCTGGAT TCTGTGAGTC
119751 TGAACCTTGA GATGTTCTTC CTATCCCTTT CTTATTTTTG TCTTAACTT
119801 TTCTACCCTG ATTCTCATAT CTTCTAACCT ACTCGTCTGT TACCATATTA
119851 TCATATTTCA ATATTTTTGA AGCAGCATTG TGAAGGTAAT TGTCTTATTT
119901 CAGGCTGCTA TAACAAAATA CCATAGACTG GGTGGTTTAA ACAACAGAAA
119951 TCTATTTCTC ACAATCTTGG AGGCTGGGAA GTCCAAGATC AAAGTGCTGG
120001 CAGATGTGGT GTCTTCTTAG GGTGTGCTGC TTGGCTTTCA TGTGGTCAATC
120051 TTGACATAGC CTCACATAGT GGAAAGCAGA GAGAGAGAGA GAGATATCAA
120101 GCTCTCTGT CTCTTCTTAT AAGGACACTA ATCTCATTCA TGAGGGCTCC
120151 ACCCTCATGA ACTAATTACT TCCCAAGGGC CCTGTCTTCT AATATCACAT
120201 TGTGGATTAG GATTTCAGCA TATGAATTTG GGAGGGACAA ATTTGGTCCA
120251 TAGCAGCACC ATACAAAAC AGTATTAAG GTGGTCTCGT TTTTCATCAGG
120301 CATGTTTCCA ACTTGAAGA TTTGTTAATG TCCATAATTT TTGCTGTGTT
120351 GCCATTCTG TTCTTTTCCC TTTTCTCCTC TTTTCTTTTG CATTCAGTGC
120401 ATTTTGATAT TGTATATTAT CTCTCTATT ATCTTAATAG CTAAGCCTCT
120451 TTATTTTACT TAAAAAATA CTTGCTCAAG CATCTATACT ATACATACTT
120501 ACATTCTGTC TTCAAATAAC ACTGCACCAC TTTATTTATA GTTTAAGTTC
120551 TTACATCAAT ATACTTTTGT TTTCTTGTGC TGTATTCTGT ATTTTACCTC
120601 TAAATACACA ATAACTTTA TATTGTAGAG TTAAACTTT TAGTCAGTTA
120651 CCTCTTAAAG AAATTAATTG AAAAAAGAGC TATTCTATAT TTATTCATAT
120701 ATTTGCGGTT TCTAACCTC TTCATTTCTT TGTATAGATC TAGGTTTCCA
120751 TTTGATATAA ATTCCCATCA AGCTTTAGAA ATTGTTTAA TATTTCTTGT
120801 AGTGGAGATC TACTAGTGAC ATATCCTCTC AGCTTCTGTT TGTCTGATAA
120851 TATCTTGTC TCACCTTTCA TTTTAAAGGA TATGCCATTG TAGCTTGACA
120901 GGTTTTTTCT TGCAGCACTT GTCCTCCATT GTCAGTTGGC TTGAATTGTT
120951 TCTGATAAGA AGTCAGCAGT AGTTCTTTGC TTACAGATAT ATAATGTGTT
121001 CTTATATTCT CATTTCTCTT AAGACTTTCT CTTTCTTATC AGTTTTTGT
121051 AATTTGATAA TGATGCATCT TGATGTAGTT TCCTTACTTG GATTTCACTG
121101 AGCTTTTTTG GATCTAGTTA ATATTTTTTA AAATCAAATT TGCTATGTT
121151 TTTGTCATCT TCTTCCACTT TTTTTCCTG ACTTTTCAAT TGTATATATG
121201 AGGGGACTTC AAAAAGTTCA TGGAAAAATG GAATTTAAAG ATAAAAAATA
121251 TAAACTTTAT TTCTCAACAT AAGGTCCATC AAGTTCAAGA TACTTTTGTA
121301 AGTGATGATA CCAGTCATTT AGTCTATCCC TAAAGAACTG AGTGTCTTGG
121351 GAAATTAATC ATATCAGTGT TATATTTTTT ACATTAGTAA TTGAATAAAA
121401 ATGGGTGCC TTTAAAAATT TTTAAAGATT AAGAAACAAA AAGAAGTCAG
121451 AAGTGTCTAA ATCAGGATTG TAAGATAAAT GCCTAATGAT GTCCCATTTGA
121501 AATTCTGCA AAATTGCCCT TGTGTGATGA GACAAATAAG CATAACTTTT
121551 GTGGTAAAGG AGGACTCTGG TGAAGCTTTC CTGGGCATTT TTGTGCTAAA
121601 GCTTTTGCTC ACTTTCTCAA AACACTTGCA GTCAGCAGAT ATTATTATTC
121651 TTTGGAAAGT CAACAGGCAA AATATCTTGA GCATTGAGAA AAAGTGTGTC
121701 CATGACCTTT GCTCTTGACC AGTCCATGTT TGCTTTGACT GGACTACTTC
121751 TATCTCTTGG TAGCCATTGC TTTGATTGTG CTTTGTCTTC AAGATCTGTA
121801 GAGCTGTGTT TCATTTCTCTG TTACAGTTCT TTGAAGCAGT ACGTCAAAAT
121851 CTTGATCCCA CTTGTTACAG TTTTGATTGA AAGCTCTGCC CTTGTATGCA
121901 GCTGATCTGG GCATAAGGAT TTTGGCCCTA ATCATGTGGA AAGTTTGAC
121951 AACTTTAATT TTTCAAGTCA AATTGTTTAA CCTGAACCAA TTGCAAGTGC
122001 TCTGGTGGTG GGTATTGTT GTGCTGTTAA TCATTTATCT TCTTCAATTA
122051 GGGAAACAAAC AAGATGAGTT TTTTCTTGC AAACGTAGT GGAAGGTCAG
122101 CTGCTGGGG CTTTATCTTC AACATAGTCT TGTCTTTCA GTTATCCATT
122151 TGTAAACTGC TATCTCATTA GGGCATTTGC TCATGAACCT TTCATAAAGC
122201 ATCAATAGTT TTACCATTT TCTATCCAAG CTTCAACATA AATTGCTGTC
122251 TTTTGTCTC AAATTTAACA AAATTCATGT GGCTCTGACA AACTGTTTTT
122301 AAAGTGGTAT CTTACCTTTA GTGCTCAAAA CTGGACTCTG TTCAGACATG
122351 TTTTAAACAAG TTAGTATGAA TTTATTTTGG TGCAAAAATA ACTGAAATCC
122401 ATGCATAATT TTTAAATAAA TACATCTTTT ACGTGAACCT TTTGAAGACC
122451 CCTCATATAT TAAACCTCTT AATATTGTTG TTATTAAGGG ACCTGTGTCT

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FIGURE 3II

122501 CTGAGGATGT CATGTTTTTT TTTGTCAATC TTTTTTGT TTCTGCTTAC  
122551 TTTGAATGGT TGTCTGTCT CCAAATTTAC TGATTTTTTT CTTCAGCTTG  
122601 TAAGCTTATT TAGTGCACCT TAAAATTTCC AATATTATAT CTTTATAGCTG  
122651 TAGAAGCTTC ATTTGGTTCT TTTTATGTTT TCTATCTTTT CCTCATAATT  
122701 TTAATGTTTT CCTTAAATTT CTTTTTGTCT TTCTTCTTTT TTTAAAAAT  
122751 TCTTTTGGCC AGGTCAATAA CTGCATAGTG TTTTCTGAA AATTTTGTAA  
122801 AATATTTACG ATACCTGTTT TTAAGATCTT GTTTGCCAAT TTTATCACTT  
122851 CTTTTATTTC TATATCTATT TGTATTGAAC TTTTTTCTC CAATGTTTTT  
122901 ATATTTGGAT CAAGTTTTTG TTTATTTCTT TAAGATCTCT AAACCTTTACA  
122951 GAAAATTTGC AAGAACAGTC ACAAACATTT TTTTCTTCAA CCATTTGAAT  
123001 TTAGTTGCTG CCATATGCCC CATCACAGCT GAATACTTCA GTGCGTATTT  
123051 CTACAAAAAG CAAATTTCTT TACATAACCA CAGTGTAACC ATAAAAATTAG  
123101 AAATGAGCAT TATTATTGTC ACTCAAGTTT TGTGAGGGT CCCAATAATT  
123151 TCCTTTATGA CAAAATAAGT TAGTCCAGAA TCATGTGTTG CATTTATTTG  
123201 TCACATCCGT GAAGATTTCT TCAGTTGGTN NNNNNNNNNN NNNNNNNNNA  
123251 CATCCGTGAA GATTCTTCAG TTGGTAACAG TTTCTTCACT CTTCTTTACT  
123301 TTAGTGACCT TGACATTTTT GTAGATTGCA GGGTAGTTAT TGTGAACAAA  
123351 CATCTCTAAA TTGAGATTTG CATGACATTC CCTCATGATT AGAGTTAGGT  
123401 TATTCTTAGA AAGGATGCTG CATTCTTCTC ATTGCAATCT ATCAGGTGAT  
123451 ACTTGATTTT AACTTGTCTG ATTTCTAGTG ATGTTAACTT TGATTATGGT  
123501 GGTGTCAGCC AGGCTTCTTC ATTTGAAAAT TACTCTTTT CTGTGTAAGT  
123551 TAATATTTTG TGGGAAGTTA TTTTGGGACT ATATAAATAT CCTGTTTTGG  
123601 CCGGGCGAGG TGGTTTCATGC CTGTAATCCC AGCACTTTGC GGGGCTGAGA  
123651 TGGGTGGGTG ACCTGAGGTC AGGAGTTTGA GACCAGCCTG GCCAACATAG  
123701 TGGAAACCCG TCTCTACTAA AAATACAAAA ATTAGCCAGG CGTGGTGACA  
123751 TATACCTGTA ATCCAGCTA CCTCAGGAAG CTGAGGCAGG AGGATCACTT  
123801 GAACCTGGGA AGCAGAGGTT GTAGTGAGTG GAGATCGCAC CACTGCCCTC  
123851 CAGCGTGGGT GATAGAGTGA GACTCCATCT CAAAAAATAA AAAGAAAGAA  
123901 AGAAAAAGAA ATAAATACCC TATTTCTTAA GAGATTTTTA AATTTATTTC  
123951 GTTTTTATGG GATCATAAAT TCCTTTCTAT TCAGTGGTTT ATGATTTCTC  
124001 AGTATCACTA TTTGTATTGA TGTCTCAGTT GCACCAAGTT GGCTAGCAGG  
124051 CCCTCTTTTA AGCTGTCTTT TGTGTCTCT TGCCATTAAAT TAATCGCAGA  
124101 TGGAAAGTCA GTTGTAACTC TGTGCAGCTT TGACATTTTA CATAGCTGAG  
124151 TTAATAAAGT TCTTAGAACA GTTCATGGCA CATAGTCAAG GTTCAATATA  
124201 TGTTAGTACT TATGATTGCA ATTATACATT TTTTATTTTA ATCATTTTGG  
124251 AGTACAGTAT TTTTAATGAG CTACGTATTT ATTTTGTAT TTTTATTGG  
124301 TGTATCATAG TTGTACATAT TTTGCAGGCA CATGTGATAT TTTGATGTGT  
124351 ATACAATATG TACTGATCAA ATTGGGATAA TTGGAGTCTT CATCACCTCA  
124401 AACATTGAAC TTTTCTTGGT TTCCGGGAACA TTACAATCTT CCTCTTTTAG  
124451 TTATCTTGAA ATATGCAGTA AATTGTTGTT AACTATGATG TCTCTACTGT  
124501 ACTACTGAAT ACTGGTACTT ACTCCTTCTA ACTGTGGTTT TGTACCCATT  
124551 AGCCAAATTT TTTTCATCTC CCTCCTCCTC TCTTCCCTCC TCAGGCTCTG  
124601 GTAACCAACA TTCTAGCCTT TACCACCATG AGATCCACAT TTTTAGCTTG  
124651 CACATATGAG TGAGAACATA AAGTATTTGT CTTTCTGTG CCTAGCTTAT  
124701 TGCACCTAAC ATAATGACCT CTCATTTTAT CTGCGTTGCT GCAGATGACA  
124751 GGATCTCATT TTTTAAATGG CTAATAAATA ATTGATGAAC ACTTAGGTTG  
124801 ACTCCATACC CTGGCTGTTG TAAATAGTGC TACAATAGAC ATAGGAGTGC  
124851 AGATATCTCT TGGAAGACT GCTTTCCTTT CTTTGGTAG TAAACCCAGT  
124901 AGTGGAATTG CTAGATCATA TGGTAGTTCT GTTTTAGTT TTTTGAGGAA  
124951 CCTCCCACT GCTTCCGTA AATGGCTATA CTAATTTACA TTCCCATCGA  
125001 CAGTGATAC ATGATTTCTT TTCTCTGCAT CTCTCCAGC ATTTCTTATT  
125051 TTTGTCTTTT TGATAATAAC CATTCTAACT TGCATAAGAT AAGAGATCAT  
125101 TGTGGTCTTG ATTTGCATTT CCATGATGAT TATGATGTCG AAATTTTTTC  
125151 ATATAGTTAT TGGCCATCTT TCTTTTGGC ATTTTITTA TTGGATTATT  
125201 TATATTTGCT ACTGAGTTGT TTGAATTCCT TTTGTATTTC TGGTATTAT  
125251 TTTCTTGCTG AATAGGTAAT TTGCTAATAT TTTCTCTCAT TCTGTAGATT  
125301 GTCTCTTAC TTTCTTAATT GTTTCCTTTG CTGTGCAGAC ACTGTTGAGG  
125351 TAATTTGTCT TTTTTTTTGC CTTTGTACC TGTACTTTTG AGGTCTTGCC  
125401 CAGACCACTG TTGTATAGCA TTTCCCTCAGT GATTTCCCA AGTTTTCTTC  
125451 TAGTAGTTTC ATAGATTGAG GTCTTATGTT TAAGTGCTTT TTTTTTTTTT  
125501 CCTTTTGAGA CAGGCTCTCA CTCGTGACCC CAGGCTGGAG TGCAGTGGTG  
125551 TGATCTTAGC TTACTTTCAGC CTTGAACTCC AGGGTTCAAG CAATCTTCCT  
125601 TTCTTAGCCT CCTGAGCAGC TAGGAATACA GGTGTGAACC ACTACACCTA  
125651 TTTTTTTAAA TTATTATTAT TGTAGAGGTG GGGTCTTGAT ATGTTGCGCA  
125701 GGCTCAAACT TCTGGCCTCA AGTGATCCTC CCACCTCTGC TTCTGAGTT  
125751 GCTGGGATTA CAGGAGTGAG TCATGTGCCT AGCCACATTT AAGCCCTTAA  
125801 TACATTTTGA ATTGATTTT GTTTGTGGTG AAAAATGTGG ATTTAGTTTC  
125851 ATCCTTCTGC ATATGGATAT TFACTTTTTT CAGTATCATT TATTAGAGAC  
125901 TGTCTTTTCC CCAGTGTGTG TTTCTGATGC CCTGTGCGAA AATGAGTTGA  
125951 CTGTAATGAA TGTGGATTTA TTTCTGGGT CTCTCTTTTG TTTTATTGGT

FIGURE 3JJ



126001 CTGTGTGCTT GTTTTATG CAGTACCATG CTGTTTTATT ACTGTAGCTT  
126051 TGTAGTATAA TTTAAAATAA CTTTGTTTTA TCGTTCCAGC TTCATTCTTT  
126101 TAGCTCAGGA TTGCTTTATC TACTCAGGGT CTTGTGTGGA TCCATATGAA  
126151 ATTTAGGATT GCTTTTCTA TTTCTACCAA AGAATGCCCT TGGTATTTTG  
126201 ATAGGGATTG AGTTAAATCT GTAGATTGCT TTGGGTAGTG TAGACATTTT  
126251 AACAACTACT ATTCTAATTC ATGAGCATGG GATATCTGTT CATTTTTTAT  
126301 GTGTGTCCCTC TTTAGTTGTT TTCATCAATG TTTTATATAG TTTTCTTGT  
126351 AGAGATCTTT GACTTCTTTG GTCAAAGAAA ATTTATTCCT AGGTTTTTGT  
126401 TTGTTTGTTF TGAAGTTATT GTAAGTGGAA TTGCTTTCTT GAGTCTTTTT  
126451 TCAAATTAAT TGCTATTGGT GTATAGAAGT GCTACTGATT TTTGTATGTT  
126501 GATTGTGTAT CTGGGAATTT ACTGAGTTCA TTAGTTCTAA GAGTCTTTTT  
126551 GTGGAGTCTT TAGGTTTTTC TACATATGAG ATTATGTCAT CTGCAAACAA  
126601 GCACAATTTG ACTTCTTCCT TTTCAATTCG AATGCCCTTT ATTTCTTTCT  
126651 CTTTCCCTAAT TTTGGCCAAA ACTTGCACTA TTATGTTGAA TAGAAGTGGT  
126701 GAAAGTGGAC ATCTTTGCTT TGTTCAGAT CTTGGTGTAA AGGCTTTCCA  
126751 TTTTTCCTCG TTCCATATGA TAGTAGCTAT GGGCTTGTCA TATATGCCCT  
126801 TTATCAGATT GAAGTATGTT CCTCAATAC CCTGTTTTATT GAAGGTTTTT  
126851 ATCATGAAGG GATGTTGAAT TTTACCCAGT TTTTTCAGCA TCTGTTGAAA  
126901 TGATCCTATG GTTTTGTGCT TTGATTCTGT TAATGCAGTG TTCAATGTTT  
126951 ATTGATTGCG ATATGTTGGT TCATCCTTGC ATCCCTGGGA TGAATCCAC  
127001 TTGATTGTGG TGAATGATCT TTTTAAATGTA TTATTGAGTT TGGTTTGCTA  
127051 GTATTTTTTG AAGATTTTTA AATCTGTGTT TATCGGGGAT ATTGATAGTT  
127101 TTTTTTATTT GTTTTGTCTT TGGTTTTGCT GTCATGGTAA TGCTGCCCTC  
127151 ATTGAATAAA TTTGAATGTA TTCTCCCTTC ATTTTTTTTG AAATATTAAT  
127201 AATTAGCAGA ATTTATGTTA ATTCTTTAAA TGTTTGGTAG AATTGACGAG  
127251 AGAAGACATC AAATCCTGTG CTTTTCTTTG ATGGGAGACT TTTTATTGCT  
127301 TCAATCTTCT TGTATTGCT TTTCTGTTTT TTTTATGGTT AAGTCTTGGT  
127351 AAGTTGTGTC CAGGAATTTA TTCAATCTCT TTAGATTTTC CCATTGTTG  
127401 GAGTATAGTT GTTCTAATG GTTCTAATG ATCCTTTGTA TTTCTGTAGT  
127451 ATCAGTTGTA ATTTTTCTT TCTCTCTCT GATTTTATTT ATTTAGGTGT  
127501 TCTTTTTTTT AGGTAGTCTA GCCAAAGCTT TGTGATTTT ATGGTTTCAA  
127551 AAATCAGCTT TTCAATTTGT GATCTTTTAT TTTTTTAGTC TGAATTTTAT  
127601 TTATTTCTGC TCTTTATTAT TTGTTTTCTT GTAGTAATTT TGGGTTTGGT  
127651 TTGTTCTTGC TTTTCTAGTT CCTTGAAGTA CATTTATTAGA TTGTTTCTTT  
127701 GAAGTCTTCA TATTTCTTTG ATTTGGGTGT TTAAGGCTTT AAATCTCCCT  
127751 CTTAGTACTG CTTTTGTGTA TCTGTAGATT CTAGTATTTT GTGATTTATT  
127801 TCACTGGTTT CAAGAAATTT TAAAATTTTC TTTTTTTTGG GTGGACTCAT  
127851 TGGGCATTCA GAAATATGAA CTGTACAGAA ACTGTACAGT TTCCAAAGTT  
127901 GTTCTTGTTA GTTATTTCTA GTTTTTGTG TGGTGGTTGT GGTCAAAAAA  
127951 GATGCTTGAT ATGATTTTGA CTGTTTTGAA TTTGTTGAGA TTTATTTTGT  
128001 GGTAAATGTA TGGTCTATCC TGGATAATGT GCCATGTGCT GATAACAAGA  
128051 ATGTGTATAT TCTGCAGCAG TTAGATGAAA TGTTCGGTAA ATGTCTGTTA  
128101 GGTCCACTTG GTGTATAGTT TAACTCCAAT GTTTGTTTGT TGATTTTTTG  
128151 CCTGAACGTG TTGTTGCTCA AAGTGGGGCA TTGCGGTCCC CTGCAATTAT  
128201 TTTATTGCAG TCATTGCAGT CTGTCTCTCT CGAGAGCTAT TAATATTGTC  
128251 TTTATATATT TGGGTGCTCC ACTGTTGGGT GCATGTTTTT AATTTTGTTA  
128301 TATCTTCTGT CTGATTTGAC TTTTCTAAAT CATTATATAA TGACTTCTT  
128351 TGCTCTTTTT TACAAGTTGT GACTTAAAAT CTGTTTTATC TGATATAAAT  
128401 ATAGCTACTC CTGCTTTTTT TTGGTCTCCA TTTGCATGGA ATATCATTTT  
128451 CCATTCCTTC ACTGTTAGTC TATATGTGCT GTTAGAGGTG AAGAGAGTTT  
128501 CTTCTAGGCA GCATATAGTT GTGTCTTTTT TTTTTTTTTG GAGATGGAGT  
128551 CTGCTCTTTT CGCCCTTTCT CCCAGACTGG AGTGCAAGTG CACTCTCTCG  
128601 GCTCACTGCA ACCTCTGCCT CCTGGGTTTA AGCGATTCTC CTGCCCTCAGC  
128651 TTTCTGAGTA ACTAGGATTA CAGGCACCTG CCACCACGCC CAGCTAATTT  
128701 TTTTTTAGTA GAGATGGGGT TTCACCAAGT TGGTCAGGTT GGTCTCAAAC  
128751 TCCTGACCTA GCGATCCATC CCAGCCTCCC AAAGTGCTGG GATTACAGGT  
128801 GTGAGGGTCT GTTTTTTAA TCCATTGAGT CACTCTTGGT CTTTTTTAAC  
128851 TAGAGAATTT AGTCTATTTA CATTCAATTT TAATATTGAT AGGCAAGGCC  
128901 TTACTTTGAC CATTTCGATA CATTTTTTTT TTGGTATTAT GTAACCTTTC  
128951 TTTTGGTTTC CTTCTTTCTT ACTGTCTTCT TTTGTGGCTG AGTGATTTTT  
129001 CTCTGGTAGC ATGTTTTAAT TTGTTCTTTT TTATTTTTAG TGTATATATT  
129051 ATAGTTTTTA GCTTTGTAAT TACCTGAGT CTTATAAAAA TATTATATTA  
129101 ATTATTTCAA ACTGGTACCA ACTTAACTTT GGTGCAAGA TAAGAAACAA  
129151 ATGAAAAGAA AAATTTGTAC ACCTTAACTT CCTCTCCTCC AACATTTTGA  
129201 ATTTTTGATT TTACAACCTG CTGTTTTTAT ATTGCCTCTT AACAAATTGT  
129251 ACTGTGTAAT TTTTFAATT GTTTTGATTT TTCTTTTTAC TAAAGATATA  
129301 AGTGATTTAA GAACCATGAT TATCATATTA GTTNNNNNNN NNNNNNNNNN  
129351 NNNAACAATA ACGTTAATGT TCTTTTCTTT TGGTTTGAAG AACTCTGATT  
129401 AGCCTTTTTT ATAGGACAGG TCTAGTAATA AATTTCTCTA GCTTTTTTTT  
129451 TTTTTTTTTT TTTGGCCTGG GAAAGTCTTT ATCTGGCCTT TATTCTGAA

FIGURE 3KK



129501 GGATAGTTTT GCTGGGTACA CTATTCTTCG TTAAGTTTTT TATTTTCTTT  
129551 CAGCATTCTG AATAATTTCA CTCCCTCCAA CCCTAAGGTT CCCACTGAAA  
129601 ATTCTGCTGC CAAGTGATT GGATCTCCCT TATATGTTAT TTGTTTCTTT  
129651 TCCTTTGCTG CTTTCAGGAT CCTTTATCTT TGATCTGTGT GAGTTTAATT  
129701 ATAAATCTTG GGTGTGTTCT TATTTTGAG AGGGAAAGTT GAGCCTGGTT  
129751 GGTGACCTTT AACCTTCATG TACCTGGATA TTTATATCTT TTCAAGCTTT  
129801 GGAAAGTTTT TTGTATTTCT TTGAATAAGC TTTCTACCCC TTTGCTTTTC  
129851 TCAGTTTTTT TCTTTCATTT CAGTAACCTG AATATTTGTT CTTTGTATGT  
129901 TGTCTCATAG CTCCCATAAA CCGTTCATTT CTTTTCATTC CTTTGTCTTT  
129951 TTTCTCCTCT GACTGTGTAT TTTCAAATAG TTGGGCTTCA AGCTCACTGA  
130001 TTCTTTCTTC CTTTTCATCA GTCTGTCTGT TGATATTCTC TATTCCATTT  
130051 TTCATTTTGC TCATTGTATT TTCCAGCTCC ACAATTTTTG TTTGATTTTG  
130101 TTTATGATTT CAGTATCTCT GTTAAATTTT CCTAATACAT TTCTGAATCG  
130151 ATTCCGTCTG TTTTCTTGAA GTTCATTGAG CTCTCTTAAA ACAGGTATTT  
130201 TGAATTCCTT GTCTGAAAGG TCACATATCT CTATCACTTT AGGGTTGGCC  
130251 TCTGGTGCCT CATGTCCATT TGTGTAGATC ATATTACCCA GAATCTTCTT  
130301 GATGCTGTGT AAATTGCAGG CTGTCTGTGC ATTGAGGGAT TAAGTATTTA  
130351 TTTTACTCTT CACAGTCTTC CTTTGTTTGT GCCTGTCTCT CTTTAGAGAC  
130401 CTTCCAAGAA TTTCAAGCCA ACTGAGTATT GTGTTTCTCT AGCCTGTGAC  
130451 CACTTCAGCT ATCTAAACAC TAGGAGACTG TATTAGGGTT CTCCAGAGGG  
130501 ACAGAACTAA TAGGATTATG TGTATATGAA AAGGAGTTTA TTAAGGAGAA  
130551 TTGACTCACA TGATCACAAG TGAAAATCCC ACAGTTGGCC ATCTATAAGC  
130601 TGAGGAGCAA TGAAACCAAG AGTGGCTCAG TTCAAGTCCC AAAGCCTCTA  
130651 AGGTAGGGAA GCTGACAGTG TAGCCTTCAG TCTGTGGCTG AAGGCTGAG  
130701 AGCCAAATGGC AAACCACTGG TGTAGGTCTG AGAGTCCAAA AGGGTGAAGAA  
130751 TCTGGAGTTT GATATTCAAG GGCAGGAAGC ATCCAGCACA GATGAAAGCC  
130801 AGAAGACTCA GCAAGCCGGC TTATTTTCATC TTCTTCCACC TGCTTTTTCT  
130851 AGCCCACTG GCAGCAGATT GGATGGTACC CACCCAACT GAGGGTGGGG  
130901 CTTTGTCCGC CAGTCCACTG ACCCAAGTGT TAATCTCTC CGGCAACATC  
130951 CTCATAGACC CAACCAGAAA CAATATTTTG CATCCTTCAG TCCAATCAAG  
131001 TTGACAATTA ATATTTACCA TCACAGAGAC TCTCTGAGCC CAGGCTTGCC  
131051 ACAAATCTCA CAGGATCTCT TTGGTTGATA TGGCTTTCTG GCCCAGATGG  
131101 ACCTGGGGTA GACCCAAGGC AGATACTCCG GCTGCGTGGA AATGCTGGCC  
131151 AGGGATCTGA GTCCAGAAGA CTGTCCCAAT CACCCAGATG AGTGTGCTT  
131201 TCAGCATATT TCTGCACAGG CAGGATGGGC TGCTAACTGC AGTGAGAGGG  
131251 CCTGGAGTTG AGACTGGGCT GCGTTGGGAT CTGCTGTGTG AAGGAGACTG  
131301 GCCCCGACTT ATTTGCTCAT ATCAGCATGC ATCACTCAGC TGGTCATTGC  
131351 AAAAGTGCTT GACTGTAAACA GGGCGTCTG GTACTGAGAC TGGGCTCCCT  
131401 TGGAATCTGC TGTGGGATGG AGGTTGGTGT TCTTGTACA TTGGCTCAGA  
131451 TGGGCATGTG TCTCCCAGCA GGTCCGTACA TAGATGGGAT AGCTCCCAGA  
131501 CTGCAGCAGG AGGGGCTGGA GCTAAGACTG GGCCCCCTTG GACTCTGCTG  
131551 TAGGGACGGA TTTGGAAAGC TTGTCTTGTG GGCTCAGAGT GGCATGCATC  
131601 TCCCAGCAGG TCTCAGCACA GATAGGATAG TTCCTCTACT GCACTGGGCG  
131651 GGGCTTAGAC TGGGTCTCCT CAGGATATGT TGTGGGATAG AGGCTGGTGA  
131701 GCATGTCGGG GAGGATCAGA GTCCCAGGCC ATGAGATTTG TGTGAATCTC  
131751 CCCCTGGTTT CTGTGTGAAG CAACTATAAG CTGGGACCTC AGCTAGGGAG  
131801 GCCTGGAGCA GTGTACAGT TCAACTTCCA GGTTCACTAC TGAGACCAGT  
131851 TATCATGGG CTGATGAGCT TTTCTGCCAA GGCATTAGTG TGCATGATTT  
131901 CTCTGAACCC TTTGGCAGAT GATTTTGGTT GCAGGCTCAA GGTCAAATGG  
131951 GGCTATAGTC AAGCCCCCTG AGAGACAGGG CTACTTCTGG GCTTGAATGC  
132001 AAAAGCAAGC TCAGTGGAGC AGATCAGTCA CTTGGGTGTT AGTGTACCCT  
132051 CTCAAAGTGA CCTCCTGTG TCTTAGGGTT TCACAATTGT GGATGGATGG  
132101 ATAATTTCTT TTATTGTGGG CATATATGAG CAGGTTACCT TCTATTTGGC  
132151 CATCTTGGTG GTGTCACTCT ATGAACTACA TACTTAAGAG AAATTGCTAC  
132201 ACAGATATA TTGAGCATCC TTTTTTTTTT TATGAATTA GTCAATTATG  
132251 TGAACATCAA AAATAGTAAT GTTACTTTTG GAGGCCGAGG CAGGCAGATG  
132301 ACGAGGTCAG GAGATTGAGA CCATCCTGGC TAACACAGTG AAACCCGTGC  
132351 TCTACTAAAA GTACAAAAAA TTAGCCGGGT GTGGTGGCGG GCACCTGTAG  
132401 TCCCAGCTAC TTGGAAGGCT GAGGCAGGAG AATGGTGTGA ACCCAGGAGG  
132451 CGGAGCTTGC AGTGAGCGGA GATAGCGCCA CTGCACTCCA GCCTGGGTGA  
132501 CAGTGCAGGA CTTCACTCA AAAAAAAAT TAGTAATGTT AAGTCAAATT  
132551 TGAATTATTC TACACCCAC TCTCATCTTC ACATTTTGCT ATCCACAACA  
132601 CATTAATTTT ATATTTTAA TTGTTTTTGT GGCTATCTTC TCATTTCCNN  
132651 NNNNNNNNN NNNNNNNNTT GCACTCCTTT GCCTTAAACT TGTTCCTCAT  
132701 TATTTTCTCC CTTTACTATT CTAAGCATTT TATAACTGTT CTCTCGACTT  
132751 CTGGACTCTT AATATTCTC CTAAACATCG TTTATACTGT GGCCAGAATC  
132801 ATCTTTTATT AATACCTCTG TTATCACTTA ACTTTTATAA AACCCCTTCT  
132851 ATTGCTTACA CGATAAAATC TGAACCCCTG CCTCCCACTT TAAGTAGCTT  
132901 TATTGATTGC CACAATCTCC CTGCACCCTA TGATTCACGT GTAGTAAATT  
132951 CTTATATCAG TTCTGTTCAA GTGTATTCAT TGATGTAAAT TTAAGGTCA

FIGURE 3LL

133001 ATGAACTCAG CGTAAAGACC TTAAGAGCTC TTCTACAACA AAGTTCATAT  
133051 AGTAACATCT ATTTTGGCTC ATCAGAGACC TTTTGTATTT CTTCCTGGGT  
133101 CTTGATGTAT TTCATATTTT TGAGGATGTG AAATAAATCA ACTGAGGACT  
133151 AACCTGAAAT GTTACTTTCT CTAGGAACAT TTCTTGACTC TAAGGAGTTT  
133201 CTTCTGTATG TTTTGTATGGT ACCTGTGCAT TGCTCTATCA TAGTACTTGT  
133251 CATAAGATAT GCTAATTTTC CTGTGAATAT GGTGTTTTAT ATGAAGCCAA  
133301 ATACCGCCCA TACCAGTTTG GGATTAGTTA ACATTCTGCT AGGGTTTGCC  
133351 TTTGTGTTTC AGTCAGTCAG ATTTTAAAAA ATTAATATAA ATTGTTTAGG  
133401 AAATACTTAA GTCAGTGTCT TGTACATCCC TCGGAATTGG CTGGACCCGT  
133451 GATCTGCATG GAATAGAATA TGAATCTTGT TCAAAGTAAG GGGTGTGTGT  
133501 ATGTGTTTGT GCATGCATGC ATGCTCGTGC GCACACACAG AGAGAGGGAG  
133551 AGAGAGACAC ACACACATGT CTCTGTCTCT TCGGGATGTA TGAGGAACTG  
133601 TGTCAGAATA GCCAGATGCT CGGAGAAACA TCCCCACAAC TGAGGTCATC  
133651 TATCATTTATG GGACAATTTA ATTCATAACT TCTTGTGGTG ACTGTTTATC  
133701 TTAAGAGAT AGATATGTAT GTGGTAAAAA AGAAAGTCTG CTGTGTTTCT  
133751 TACAATATTT GATATTCTAG GTACTTGAGA AATAAGAAAT ATTAAGTTTC  
133801 AGAAATATTA ATGTCAAAAA ATGTGCATCT TCAGATCTGG TAAGTAGACC  
133851 TGCTTAGAGC TAGCCAGTGG TTAGGCCCTGA GAAATGGCTG TTCCATCTTC  
133901 TGTGCCTAGC ACCACATCTG ATATAGTGTA AAAATGTGGA TAGAGTTATA  
133951 GACAGATGAT GAATAAGTTG TTAAAAATAT ATGATTAGTC ACAGCCTTTC  
134001 CTTTGTATTG ATGTGTGGTT TTTGGAATGT AGAATGGCTT TAACTTTTAA  
134051 GGCACAAATA ACAAACAGAG AAAATAAGCA TGCTAAAGGG ATTAATAAGC  
134101 AGATTTTGT TATTTTCTCT TTTGTGTATA TTTTCTTAC TTCATTGGAA  
134151 GAAATATACA TGATTGCATT TATAAAGACA CTGAACAGTT GTTTTCTTTT  
134201 CATGCAGGGG CCTGAATTAA TGAATAAATA TGTGGTGAA TCTGAAAGAG  
134251 CAGTTAGAGA GGTAAAGAAAT TGTGCCCTTA GTGGCACTCA GCACAGGAGA  
134301 ATCACACTTC TGTCTGTGTC AGCTTCCCTT TGTTTTTAGG TAACAGACTT  
134351 TGGCATTTCC GAAGTCAGAT CTAGTGGTA TTTTTTTTTC TTCAGTAAA  
134401 TATTATTTTA TTATTTAAAA ATGCAGTTTT GATCATCTGC AATACTTCAG  
134451 TTTTGTTTTT AAACATCATA TTACCAGCCC TTTTAAACT ATCATTTTTT  
134501 CTGATAATAA TAGCCAGCAT TTCTGTAAAA ATAGTTAATG CTGTTACTAA  
134551 TAGTTAATAA TACCTATCAT TTATTGAGCT CTTACTGTTT CAGGCATTGT  
134601 GCCAAATGCT TTTGTGTTCT TTTAAAAATC AATTATTTAA ATAACTTTCT  
134651 GAGGTAGGTG TTTATTTATCT CCATTTTATA GATGTAGAAA TCGAGGCTTA  
134701 CAGAAGTGAA GTTAACTGCT GAAAGTCACA CAGTTACTAG TAGTGCAGCT  
134751 GGGATTTTAA CTGAAATTTT CTGATTGCTT AACTGAATTG CCTCCTTCAC  
134801 ACCTATGTGA ATATGTATTG ATAGTCTTGT CTCTTTAAGC ACTATTGAAG  
134851 GGGATACTTT TACATCCATT ATAAAGTTCT GAACATCTAT TACAAGGTCT  
134901 ATACAAAGTG ACTGGGCTTG TTGACTTGTA CCTAATAGGT TTGGTTCTAA  
134951 ATATAGTTTT AAAACAAACC AACTACAGAA TTTTCTAGTG TTTGCTCATC  
135001 TTTAGCTAAT GTGGCACTCT TTCCACCAGA CCTTCCGAAA AGCAAGAGCA  
135051 GTGGCGCTCT CCATTATTTT CTTTGATGAA CTGGATGCCT TAGCAGTTGA  
135101 AAGGGGCAGG TAAGAAGTAT TTAATAGCAC TGCTATTACA TAATAATATG  
135151 ATGTTACATA ATAATAGCAA TTATGGTATA AATAGCATTT TGTATACAAC  
135201 TTTTATCTAT TAATACATTT GGCCTAAAAA AGTTTTCAGT TTTTGTAAAT  
135251 TTTTCTCTCT ATACCCATTA AATTATTTCA TGTAATTACT GTATAGTACT  
135301 TTTATCTATA TTGGATAAAA ACCACTGATA CCTGTCTGGG CATTTGAGTT  
135351 AATTTTATATA TTTTATATCA ACACATACTT CTTAGTATTG TCTATCAAAA  
135401 TTAGGGTTAT TGTAACATA TAATTAACAA TGTAACAAA ACTGGATTAA  
135451 TCATAATTAC TTCTTGTAAT AGAACAAAAT TATAAAATAC GTTACACAGA  
135501 TTTTAAATTT CTCTGGAATA AATGTTTCTT AAAGTAAAT TAAATAGAAT  
135551 ATAAATTAGT ATTAATAGTT TTGCTCCAAA ATCTCAGGCA GTAAAAGAGG  
135601 TTATCTATGA TGTCATTTCA AACAAATATA TACACACACA CACACACACA  
135651 TCAGAACTGT TCATAAGTAT GTTTTTTTCC TCTACAAATG TATAGCGGTC  
135701 CTTTAATATG TTCTACAAGT GGTTCATGTT GGGTAATGTA AATTTCATGTA  
135751 CTTTGTGCAT AGCTTCTTGA TGTGTATATT GATTATAAAA TTTTGTCTGG  
135801 TGGTAATTAC AGTGAAGGGT GAAGACAAC TACAGGTGTC AGTAGTAAGT  
135851 GTGATATGAA ACATTGCTGT TATCATCTT CTTAATTAGA GCTGCCTCAT  
135901 GTGATGAGAG TATAAATTGT CATTAGGAAC CTATCATTAG GAGGTAGACT  
135951 GCTATATTAG TCCATTTTCG TGCTGCTGAT AAAGACATAC TCGAGACTGG  
136001 GTAATTTATA AAGAAAAAGA GGTTTAATGG ACTCACAGTT CCACGTGGCT  
136051 AGGAGACCTC ACAAATCATG TGGAAGGCGA AAGACATCTC TTAGGTGGTG  
136101 ACAGGCAAGA GAGAATGAGA GCCAAGTGAA AGGGGAAACC CCTTATAAAA  
136151 CCGTCAGATC GGGCTGGGCG CCGTGGCTCA CGCTGTAAT CCCAGCACTT  
136201 TGGCAGGCCG AGGTGGGCGA ATCATTTGAG GTCAGGAGTT TGAGACTAGC  
136251 CTGGCCACCA TGGTGAAACG CTGTCTCTAC TAAAAATATA GAAATTAGCT  
136301 GGGCGTGGTG GTGGTTGCTT GTAATTCAG CTACTTGGGA GGCTGAGGCA  
136351 GGAGAATTGC TTGAGCCAG GAGGTGGAGG TTGCGGTGAG CTGAGACTGC  
136401 TCCATCGCAC TCCACCCTGG GCAACAAGAG CGAAACTCCA TCTCAAAAAA  
136451 CAAAACAAAA CAAAAATCA GATCTCGTGA GACTGATTCA CTACCATGAA

FIGURE 3MM

136501 AACAGTATGG GGGAAACCAC CCCCATATTC AGTTAATCTC CCACTGGGTC  
136551 CCTCCCAACAA CATGTGGGAA TTATGGGGGC TACAATTCAA GATGAGATTT  
136601 GGGTGGAGAC ACAGCCAAAC CATATCATTG CGCCCTGGC CCCTCCAAAT  
136651 CTCATGTCTT CACATTTTCAG AATCATTTCAT GCCTTCTCAA CAGTCCCTCA  
136701 AAGTCTTAAC TCATTTTCAGC ATTAACCTCAA AAGTCCACAG ACCAAAGTCT  
136751 CATCTGAGAC AAGTCAAGTC CCTTCCACCT ATGAGCCTAT AAAATCAAAA  
136801 GCAAATTTGT TACTTCTAG GTACTATGGG GGTACAGGCA TTGGATAAAT  
136851 ACACCCGTTG CAAATGGGAG AAATTGGTCA AAATTAAGG GCTAAAGGCC  
136901 CCATGCAAGT CCAAAATCCA GCAGGGCAGT CAAATCTTTT TTTTTCTTT  
136951 TCTTTTTTAT TTTATTTTAT TTTATTTTAT TTTATTTTAT TTTATTATTA  
137001 TTATACTTTA AGTTTTAGGG TACATGTGCA CAATGTGCAG GTTAGTTACA  
137051 TATGTATACA TATGCCATAC TGGTGTGCTG CACCCATTAA CTCGTCAATT  
137101 AGCATTAGGT ATATCTCCTA AAGCCATCCC TCCCCCTCC CCGACCCCA  
137151 CAACAGTCCC CCGAGTGTGA TGTTCCTCT CCGGTGTCCA TGTGTCTCA  
137201 TTGTTCAATT CCCACCTATG AGTGAGAATA TGCAGTGT TTGTTTGT  
137251 TCTTGAGATA GTTTACTGAG AATGATGATT TCCAATTTCA TCCATGTCCC  
137301 TACAAAGGAC ATGAATCAT CATTTTTTAT GGCTGCATAG TATTCCTATG  
137351 GTGTATCTGT GCCACATTTT CTTAATCCTG TCTATCATTG TTGGACATTT  
137401 GGGTTGGTTG CAAGTCTTTG CTATTGTGAA TAGTGCCACA ATAAACATAC  
137451 GTGTGCATGT GTCTTTATAC CAGCATGATT TATAGTCCTT TGAGTATATA  
137501 CCCAGTAATG GGATGGCTGG GTCAAATGGT ATTTCTAGTT CTAGATCCCT  
137551 GAGGAATCGC CACACTGACT TCCACAATGG TTGAAGTAGT TTACAGTCCC  
137601 ACCAACAGTG TAAAAGTGT CTTATTTCTC CACATCTCT CCAGCACCTG  
137651 TTGTTTCTG ACTTTTTAAT GATCGCCATT CTAAGTGGTG TGAGATGGTA  
137701 TTTCAATTGT GTTTTGATTT GCATTTCTCT GATGGCCAGT GATGGTGAGC  
137751 ATTTTTTCAT GTGTTTTTGT GCTGCATAAA TGTCTTTTTT TGAGAAGTGT  
137801 CTGTTTCATG CTTTTCGCCA CTTTTTGATG GGGTGTGTTG TTTTTTTCT  
137851 TGTAAAGATA GTCAAATCTT AAAGCTTCAA AATGATCTCC TTTGATCCAT  
137901 GCCTCACATC CAGGTCCCCC TGATGCAAGA GAGGGGTTC CATGGTCTTG  
137951 GGCAGCTCTG CCTCTGTAGC TTGGCAGGGT ACAGCCTCCC TCTGGCTGCT  
138001 TTCACAGGCT GGTGTGAGT ATCTGCAGCA ACATGGTGCC ACAGGCACAT  
138051 GGTGCAAGCT GTCAGTAACC TACCATTTTA GGGTGTGGAG GATCGTGGCT  
138101 CTTTTCTCAC AGCTCCACTA GGTGGTGCC CAGTGGGGAC TCTGTGTGGG  
138151 AGCTCCAAAT CCACATTTCC CTTCCACTCT GTCCTAGCAG AGGTCTCAT  
138201 AAGGGCCCTG CCCCTGCAGC ACACCTCTGC CTGAACATCC AGGGATTTC  
138251 AACATCTTCT GAAATCTAGG CGGAAGTTCC CAAACCTCAA TTCTCGACTT  
138301 CTGCAACAAC GCAGGCTCAA CTCCATGTGG AAGCTGCCAA GGCTTGGGGC  
138351 TTGCACCGTG TGAAGCCATG GCCCAAGCTG TACCTTGACC CCTTTTAGCC  
138401 ATGCCTGGAG CCGGTGGGAT GCAGGGCACC AAGTCTGAG GATGCACTCA  
138451 GCAGTGGCAG GGGGGGCCCT GGACCTGGCC CAGAAAACCA TTTTCCCTC  
138501 CTAGGTTTGC AGGCCTGTGA TGGGAGGGGC TGCAGGGAAG GTCTCTGATC  
138551 TTCCCTGGAG ACATTTTCCC CATTTGTCTG GCATTAGCAT TTGGTTCTCT  
138601 GTTACTTAAG CAAATTAATG CAGCTGGCTT GAATTTCTCC CCGGGAATG  
138651 AGTTTTTCTT TTCTACTGTA TCTTCAGGCT ACAAAATTCC AAACTTTTAT  
138701 GCCTGTGCAC ATCTTGACTG CTTTGCTGCT TAGAAATTC TTCCACCAGA  
138751 TATCCCAAAT AATCTCTCTC ATGTTCAAAG TTCTACAGAT CTCTAGGGCA  
138801 GGGACAAAAAT GCCACGATC TCTTTGTATA GCAAGAGTAA CATTTACTCC  
138851 AGTTTCCAAC ATGTTCTCTA TTTTCATCTG AGACCACCTC AGCCTGGATT  
138901 TTATTGTGCC ATATTGCTGT CAGCATTTTG GTCAAAGCCA CTTAACACGT  
138951 CTCAGGAAG TTCCAAATTT TCCACATCT TCCTGTCTTC TGAGCCCTCC  
139001 AAGTCTCTAG GAAGTTCCAA ACTTTCCAC ATTTTCTCTG TTTCTTCTGA  
139051 GCCCTCCAAA CTGTACCAAC CTTCACTGT TACTCAGTTC TAAAGTTGCT  
139101 TCCACATTTT CAGGTATCTT TACAGCAGCA CCCCCTCTA CCGTTACCAG  
139151 TTTACTGGAT TAGTCCATTT TTATACTACT ATGAAGAAAT ACCCAAGACT  
139201 GGATAATTTA TAAAGAAAAA GAGGTTAAT GAACCTATTA GTTCCACATC  
139251 GCTGGGGAGC CTCACAATCA TGGAGGAAGG TGAAGGAGGA ACAAAGGCAT  
139301 GTCTTACGTG GTGGCAGGCA AGAGAGCTTG TGCAGGGCAA CTCCTTTTA  
139351 TAAATCATT AGATCTTGTG ATGCTTATTC ACTACCACAA TAACAGTGTG  
139401 GGGGAAACCA CCTCCATGAT TCGATTACCT CCACCTGGCC CTGCCCTTGA  
139451 CACATGGGGA TTATTACAAT TCAAGGTGAG ACTTGGTTGG AGACACAGTC  
139501 AAACCATACC AGCTGCCCTG CTTTCCACCC CCTCACATT TGGTATTCCA  
139551 TGAATACTTA CGTCTTTT TGCTTTGTGA AGTGAAGCAC TCAAGCCCTT  
139601 TTATTACTTA CGTTTTAAGA TGGCACAGAG TGTACAAAA CTCAGGTTTA  
139651 CCTAACTACA AGAGAAGAAA AGCCAGAGAA TTTTGCTGAA GTAGTGTGAC  
139701 CTTCCACAGT TATGTGACAT CAGAGACATC TGGTTTTGGA CCCTAAAAAG  
139751 GAACAGGTGG GAGGATATC CTGTTAAATA TGAACCAGAT GGGAGGTAGA  
139801 ATATGTAGCA AAGTCTCTT AAAATGTCTC TGAATAAAG TGATGTGAGA  
139851 AACCAGACAA GGCATTTTGT AGTAATATCT TGCTTTCTTA GGAGTTTACG  
139901 TCAGTAGGAA TTACCAGATA CATAAGAGAT GCTAATGATT TGCAGCTTCT  
139951 AGATGTTATT TCCTCTGGTA GTCTTCATCA AATTGAACCT TTCAGAGAAC

FIGURE 3NN

140001 ACATGTGTTT AGTGTATACC TCCCTCTCTC AATGGCTCGT CATGTGTAC  
140051 TTAATGAAGG GAGGCAGTTT ACATACTGAG AAATTCAGTC ATTAGTCAAT  
140101 TTCATTGTTA TGTAACATC ATAGAGTATA CTTACTTATA AACCTGGATG  
140151 ATGTAGCCTT CTACACTATA TACCATATGG CCTATTGCTA GATAGTATAA  
140201 CAATCATCTG CAGTACTTTG ATTTTGTFTT CAAACATCAT ATTACCAGCC  
140251 TTTATTTTFA TGAAATAAAG ATTTTFTTFA AACTATCAT TTTTCTGA  
140301 TAATAATGGC CAGTATTTCT GTTAACATAG TCAATGTTGT TACTGTACT  
140351 TAATCATACC TATCAATTAT TGAGCTCTTA CTATGTAAGA TATATATAGC  
140401 AATAAGCCAT ATGGTATAGC AATAAGTCAT ATGGTATAGC AATAGGCTAT  
140451 ATTACCTATA CCAGGTAGCC TGGTCCTAGG CTACTAATT ATACAGCATG  
140501 TTATTGTACT GAATACCATT GTAGGTAGTG GTAACAAAT GCTTAGATTT  
140551 GTGTATATAA ACATACAAAA GTTAGAGTAA AAAGACAGTG CTGTGATCTT  
140601 ATGGTACCAG CTTTCATATAT GTGATTGCCA TTGACCCAAA CTTTATTATG  
140651 TGGCAGATGA CTGTAGAAAT AAATCTATG CAATTTGTTT TGTACAGAAA  
140701 CATTTCGTG CATATTTTAT CAAGTTAGTT GGCATTTCCG AAAGCAAAGA  
140751 TGAAGTTCCA TTCAAGGAAA TAGAGTGCTG ATGGGTCCCA ATTAAAGAGT  
140801 TTTGGTTGTA CTCTATTTGC ACTGAATCTT ATGTAGTTG TTTTGTAA  
140851 CCATAAACT CTCATAAAGT GACTTCTGT TTTTAGGCT TCGTCTTTTT  
140901 TTCTAATTA TATGATGGAT CATTATTGCC TATAAGTGAT TGTTTTATCT  
140951 AATTAGTTTG CTGTACTTGG AAATCTAAAA CAAAAGGTAT TTTGTTTATT  
141001 TTTTGTCT TTTGCTATTT GAATTGAACA CAATGGAAAC TGATAAAGAA  
141051 CTACTGATAG ATATACCAGA AGTATAAAAT TCCCAAGATA CTAAACTAAT  
141101 TTTATGCATT GTTAAACTAC TCATGGAATA GGAACAGAGA GAAAAATTC  
141151 ATAAATTAGG AGGCAATTTCT ATGTAATATT AGGCTGTAAA CAGTCACTGA  
141201 TTTAATTGCT CCAAAGCTAT CATCTGTTTT CTATGATAAC ATTCAGATCA  
141251 AATCATATAA TTAGTCCCAA AGTGACAATG CATAAAGAAG AATGTTTCTG  
141301 GGCTGGGCAC AGTGGCTCAC ACCTGTAATC CCAGCACTTT GGGAGGCCGA  
141351 AGTGGGCGGA TCACGAGGTC AGGAGATCAA GATCATCTG GCTAAGATGG  
141401 TGAAACCCCG TCTCTACTAA TCTCTACTAA AATTAGCTGG GCGTGGTGGC  
141451 AGACGCTGT AGTCCCAGTT ACTTGGGAGG CTAAGGCAGG AGAATGGCGT  
141501 GAACCTAGGA GCGGAGCTT GCAGTGAGCT GAGATCGCGC CACTGCACTC  
141551 CAGCCTGGGT GACAGAGCGA GACTGTCTCA AAAAAAAAAA AGAAGAAGAA  
141601 GAAGGTTTCA AGAATTTAGT TTCTAAATTC AGGATGTTT GCAATTGAGC  
141651 AAAGAATCAT GATATTTGCT AGTCTTTACT GTCTTGCTCA TGCTAAATCA  
141701 AATTATTTTG ACTACTTAAA ATTACTGAAA AGATAAGACA TGGTAATTAG  
141751 CCATGAAGCA GAGGATTGCA GCCAGCACAT TGTAAGTAGA GCATAGATAT  
141801 ACTATTTGCT TGTAGTCAT TGAAGTCTT GTATTTCAA AAAATCGTAT  
141851 ATTTCTGCT TATGAAAGTA TCTAATTATA ACCAATATT TATCTCTCT  
141901 TTGCCCTGTT TAATAGATTC TTTGGGACTT GAAGAATAAA TAAGCCTGAT  
141951 ATTTACTTCT CTCTGTGTG TTCATTTAAA TTACGGCACC TTTGAATAAG  
142001 AATTTTGTG ATATTTTATA TTGTAAGAGG AAATGCTGCA TGATTCTTTT  
142051 TTCAAAGTAT TTTACTACAT TTGGGAAAA TAAAAATGCT GTTAAGGGTA  
142101 ACATAGCTCT TTGGAAAAATG GATAATATGA TAGGGAGTGA GACGTTGAGG  
142151 GAGGAAGGGG AGTTGAATTA TACTGGGCTA ATAATAATAT TAGATAACAT  
142201 TCCTTTAGTG CTCTTACAT ACTAGAACT ACTTACATTG CTTTACAGTA  
142251 AAGAAAACT CACAGAAAGG TCCCTGCATT AATGCAAGT AGGATATTAT  
142301 ACAATTGGCA GTGACTCTA GTACTTTGTC TTACCTCCTG ACTAGCTTAC  
142351 ATTTTACCT TTTTCAAGGT TATGATGTGG TGAGTAGAGC AAACCTGGCA  
142401 GTAAATTATT AGTCAACCTT GTCTTAGGCA ACAATCCTGT CATCAAAAGT  
142451 GCAGACATGT AGGGTTGGCC CAGTCTCCTC TGACTGACGA AATGAGTACT  
142501 GACTAACCTG TAGATTTCCC ATAACAACCT CTATTGTCCA GGACATTTCA  
142551 TAGGATCCTA AGATCCTGAA TCATACTCCT TAGCTGACAG TGATTACTTA  
142601 GTAGTGCCAA ACTTCAAGTA GGACTAGAAC AGATTTGGAA CTAGGAACAT  
142651 ATTCTGAAA CTTAGGGTCA TTAGCTAGAG AGGCTCATCT TTTTACTTA  
142701 ACTTCCAAGT AATGTGACTC CTTTGTGTTG GACCCCACTT AGTGTATTAA  
142751 CTCCTAATCG TTGTGTTAG GTGCTATTCT CATCTTCTT TCACAGGTGA  
142801 GAAAACGGGG CTGTAGACAC CTAAGTACCT ACTCAAGGCG ATGCATCACT  
142851 AATAACAGAG CTTGTATTTG AATTTAGATA TATTGACTAT AGAGCAGATA  
142901 CCCTGAGCCA CTTTGTGTT CAACTAGGGT ACCACATAGC CCAGGATTCC  
142951 AGGTGTAGGT AGTTAACTAA CCTTCAAGCT TGTTNNNNN NNNNNNNNN  
143001 NNNNTGCGT TGGGATAAAA ACAGTGAAACA GTAACCTAGG GACAGGTTCC  
143051 TTAACCTCTC TAAGCCTTAG TTTCTTCATC TGTAAAGTGG AGTTAATAAT  
143101 AGTAAATTCT AGGTTTTTGG AAGTAAATAC ATTTATAGCG CTTAACATAA  
143151 TACCTGGTAT TTAATAACTA CTAGAAAAGT TCAATGTTTC TTCTTAGAGT  
143201 AATTTTGTGA AGATATTCTT AAAATAATAA TGATTTCCAT ATAGGTTGAA  
143251 ATATAGTAAT TGAGATTGAA ATGAATCTAC CTCGACAGAG TTTATACACT  
143301 AGTGAAAGAA AACTGATTAA ATAAAACATT TGGGAATTAG AAAAAATATT  
143351 CTACAGTTGA CACACAGTGT GGCATTTTGT CACTTAAGA TGCCATCAGT  
143401 TATAAGATAC ATCATTATTT TATGTAACCT ACTGAAGAAA TATGCTGAGA  
143451 AAATGGTGCT GAGAAATCAC CAACTACAGG AGACATTCTG ACCTGACAAA

FIGURE 300

143501 TTTAAATAT GAAAAAAT TATCCTAGAT ATAGGAGAAA ATTTTGTGT  
143551 TTAGGAGATA GGGAAATGAT TTATTCTGTT TTGTAACACT AAAGCTTTAT  
143601 ATAATGTATT GGGGTATTGT TTTATGACTA GAACATAAAA ACATGATCAA  
143651 ATATATTTAA AAAAATGAAA AAGGTGAAGT GCTCAGTTAA AAGCTGACTG  
143701 GTATCTTCTG TGTGGCACTA GAGAATCTAT ATTAATAACT GCTTCTCTA  
143751 TAGCTGTTTC TGCAATTTATA GTCCAGAATT GGTTCCTACT TAAGAGTGGT  
143801 TAGGGAAAAA AATAAAAAAG TTCTAAGCTA GCTTTCATTG AAAATGAAGA  
143851 TCTCAGGCTT AGCGGCATTC TGAAAAGAGG TCTGCGTTTT AAAATAATAA  
143901 TCAGGAAATG AGGTACCCCTC TTTTAAGCAG CAGCAGCATA TCCAGATTTG  
143951 AGGTAAATTC AATACATTCA TGATGTTATG TACTGTAAAG GAAATTTTTG  
144001 TAGGCATCAT TTCTCTAAAT GACACTTTTC AAGAAGGGTT ATAAATTTTT  
144051 TAATGTGATT TTTATGGTGG TTTATAAAAT TTCATAAAAT CATAGAACTT  
144101 TATAAATGGA AAAGTCTTA GAAGTCATCT AGTACAACCT TTTATTTTTC  
144151 AGAAGAAACA TGTAATTTCT TTGTGGCCTA GACAAGACTA GAACTCATGT  
144201 CTCTGATTT AATGCTCTTT GAACATACT ACTGCTGTTT CATATATTAT  
144251 CAGGATTTAG GATAGAAAAA GTACATTTAT TTCAGGGTAA AAATTCCTAT  
144301 GTATCTAAAT ATTTATGAAG AATTTTTTTA TGTTTTAAGA AACTCTAGTA  
144351 GTCACAACCT AGATATTTTT AGCCACTATT ATTTTTATGT CCATTTTGAA  
144401 AGTTACTAAA ATCAATGGCA TTTTCTGCT AAACAGTTTT TTCCAATTTA  
144451 TACTTAATTG CCTCACATAT AACATAATTT CATATTGGTA AATTTTAAAT  
144501 AGTAAACAGT AAACAAATGC TGAGGAAAC AAAGCAAGAG ACGAAATGGA  
144551 AAATGTGTAA CAGATTTTCT CTTATAATAG TTTTATGTGG TATGAGAGTT  
144601 CTATGAGTTT TTTTATTTGT GTTTTGTCTA TAAGTTGTAA CTAAGTACTA  
144651 TAGCATAATT TTTCAAAGGC ATGAGATGAG TTTCTTTAGA GAGATGGCCT  
144701 GTTGCAAGT TTTACTAGGA ACTGGGAATT CTTTGTTATG TGTAGGACAC  
144751 ATAGATTTCT TGCTGTAGCT ATCTCACCTT TAAATCAAA GTTTGCTTAC  
144801 ATTTTACGTG TACCATGAAA ATTATCATAA GTAATGCTTT AACTCAGAGC  
144851 AGTATATGTT GGCTAGCCTT CTTTTTGGG GTTCTTACA AGCCAATTTT  
144901 GACTGTGGGT GTGTGAGATT TTAAGAAAAT GAGGCTGGGC ACGGTGACTC  
144951 ACACCTGTAA TCCCAAGCAT TTGGGAGGCT GAGGCGGGCG GATCAGGAG  
145001 TCAGGAGATC CAGACCATCC TGGCCAGCAT GGTGAAACCC CATCTCTACT  
145051 AAAATACAAA AAATTAGCTT GGCATGGTGG CGCACACCTG TAGTCCCAGC  
145101 TACTCGAGAG GCTGAGGCAG GGGAAATCGT TGAACCCGGG AGGTGTAGGT  
145151 TGCAGTGAGC CAAGATTGCA CCACTGTACT CCAGCCTGGG CAACGGGGCG  
145201 AGACTCCATC CCCCCAAAA AAAAGAAAGA GAGAAAAGAA AATGAACAAA  
145251 TTTACATGCC TACCATTGGG GACTTGTTAT GATATTTAAA ATGTATACTA  
145301 GGAaaaaaATA TTTTAAATTT AAAAATGAGT ATATAAGATG CTGGTATATA  
145351 ATTTGGGTAG GGCATTTTAT TTTATTGGAG GAGTTAGGAA ATTCATGTAT  
145401 TCTGTGAAAA TTTTATGTAC TGGAAAATAG AATCAGTATA ATAATTACCA  
145451 TAATGGGAGT GAAGTTTCTT AAAGATAGGG GTAAGCACAT TTTTTTCTG  
145501 AAACAGTTCA GTTAGTAAAT GTAGTCTCTG TTACTGCTAT TCATCTCTGT  
145551 TGCTATAGTA CAAAAGCAGC ATGGAAAATA TATAATCAAA TGCGAAAACA  
145601 ATTTGGTTGGT CAGATTTGGT CTGTGCCTAT AGTTTGCTTA CCCCAGTTTT  
145651 AAGATACCGT AATATCCCTT TGATCTGTGG TCGTATATGT CTTTGAATA  
145701 GCAATAATTT GGAAAGGGGG CTTGACTTTT GAAAGGAAAA GAAAGTTAAT  
145751 GCTTTGGGAA TGTCTGCTT ATATATTAGC TGTACATTTT CCCCTATTGT  
145801 GTTGCCATATG TCTAGCAGAT AATAAAGTCT TATGAAATCA TTTCAATTATG  
145851 TTAGTGATTA AGCATTTGTA TTTAAACCTT TTCATAGAGT TGTTTTTGAT  
145901 TTCTAGGAT GTCAATTTTA TGGTTTTTGT TTCTACTGA AGCTTTGAAA  
145951 GTCAGCCAAG AATATTTCTC AGTTCATAAA ACATTTTCAC TATGCTTTTC  
146001 TCCAGCTAGC TTTCAATGAT CTGTGGAAT AAAGAGCAAA GGCCGTATGG  
146051 GTAATAGGAA TGCAAGAAT TATTGTCACC TAATCTTCAG CATTAAATTAC  
146101 AGCCACTGTT TCATCTTACA ACAAAGAGCA AATTGGAAAA GTTTGAGTTT  
146151 CACTGCCTTT TATTTAGAAG TACCTGATTG GAGGTGTCAA TAAACATTT  
146201 CTAATATGTA ATATTTTATT AAGAGTAATC AAATAGCTCC ACATAGATGC  
146251 TACATAATAA CAGCATAGAA TCACAATTTT ATTAATAATC AAAAGACTTA  
146301 TGTATATATT ACCTAAATTT GCTCCCTCAT TCATACCTGC CAACAAGAAT  
146351 GAAATCTTCA AGGAAGTGAA AATGTCTTCA TTCTCTTACC TCAGATGTCC  
146401 ACCACAGTGC CTAGCAAAGA TGCACACAGA TAGTTTTTTG AATAAGGGAA  
146451 TAGAACTCA GAGAACTAG AGATTATGAT CACTCCACTG GTTATTGAGA  
146501 GTTCGACTTA GTGCCACGTG TGAACAAATT TTCTTTTAAA ATTTGAGACT  
146551 TGTAAAAATT AAACGTGAC TCTTACATAA TTTTATCTCC TGCATTAATG  
146601 TTTATAGAAG CATCATCATC TTCATGGTAA AGAATCATTG GTAAGCTTTG  
146651 GAATAATTTA CCTCTCAAAG AACTCCAAAA AGAATTAATG AAGTGCTAAG  
146701 CCGTGCTAAA AACATTTAAT GGTTTTTGAA CACAATAAAT TTAAGAGTGG  
146751 GTTCGACTCA CAAAACCTTG TCAGTGTGCC AAGTATACAG AAATGATAGA  
146801 TATTCTTTTT AATATAGCTG TTAGCAGCCG TAATTAAGG CCAACAAAGG  
146851 ATAGCAGCAG TGATGAGCAT TATCCATTTT AGGCCAGTGA GAACACATTT  
146901 TGAAAAAGAC TGCTGCCATC CATGATATAT TAATTAATTT GTAGAAAGGT  
146951 CTCCATGTTA CTCTCTGCAC AAAAGGCCAT TCAGTCACAC TTATTTTATT

FIGURE 3PP

147001 GTAGGGTAAT TTAACAGTCT TTTTITGCGT AAACAAGCAC CTAAGTCAGT  
147051 AGGTTCCAAA TCCTGTGTTT CTACAACCAT ACTTAGAGCA TATAAATGAT  
147101 GATCCTGTAT TATCAAGGAC AAATGCTGTA TAGAATCCTG TGGCACCCTC  
147151 TTCCCAAAACA AAAGCTGAGT TGA CTGGGAA TACACAAAGA AGGAGTGTAG  
147201 GTAGAAAAAA ACAGATGAAG AGA ACTTTTG GTATAGATTC AAGAAACCAA  
147251 AGAAATACGG ATTTTCTTTT TGTGGCCTA TTTCTGAGC CAAGCATTTT  
147301 TGCATCTGAG CACAGAATCT TACAGTATGT TGTAAAAAT ATTTTGTCTA  
147351 TTTTAGAAGG ATTTACTTAA ATTTATTTTT AATTATAAAA ATATCCGAAA  
147401 AGTATAAACA TATTTCTATC TGGAAATTTT AGCTATGTAA AATAAATAAC  
147451 TACTTGAGGA ATTTGAGAAG CTAAGCAATT ACTACATTTG AACAACTAAA  
147501 ACAGTTAAGA CTGTTAAGAC TAAAAACGTAA AGTACTCTAA TTACCAATGT  
147551 CTTAACAATC TCCTAGTAAT ACAGCAACAA AATCTCTATT AGGAGTGTAT  
147601 TAAAGGCTGA CTGTTCTGGG CATGCCTCAT AGTTATGAAG GATTTTCAGAG  
147651 GAGCAGTTCT GATCTTAGTA TTGCTTGGT GGTITTCATG GCAAAATTTA  
147701 AGGAAATTTG ATACTTTGAA CCATATTGTA AGTAAGGCTA AGTAAGGAAC  
147751 TGACTGTTAA TCTGGATGCA TCTGTTGACC CATGCTGTTT GAAGCTTCTG  
147801 AAAATCTTCT ACCAGACATC ACATTTCTGC TCTTTTCAGC AAATATTTAT  
147851 GTATCACACA CCGTTAGTT TAATTTATAA CTTTAAAAAG TTTAAAAAGG  
147901 ATCTTCATTA TGCCAATTAT AGTGCTGACA CTTACAATGA CTAAAAATTA  
147951 ATATTTAATT TATTTTATA ATTATAATTA TTATAATGCC CCAAAGTCTG  
148001 ATCTAGTGAC ATTTTCTTTG TGCTAAGTAC TGTGCTAGAT CCTTTATATG  
148051 TTTTATTTAA TTTTGAGGAA GTGTCTTAGT CCCCTTGGGC TGTATAACA  
148101 GCATAATTTA GTCTGAGTGG CTTAGAAACA AAAGTTTGT AGTTCTGGAG  
148151 GTTGTGAAT CCAAGATCAA GGTGCTGTCA TATTTGATAT CTGGTGAGGG  
148201 CTGCTTCTCT CTTTATAGAA TGCCATCTTC TCACGTGTGC CTCAGTAGT  
148251 GAAAGGGGCA AAGGAGCAGT CTGGGGGCTT TCTTACAAGG ATACTAATTC  
148301 CATACATGAG GGCTCCACCT TCATGACCTA ATTACCTCCT AGATATCCAC  
148351 CTTAGATAC CATCACTTTG GGGGTAGAT TTCAACATAT GCATTTTGGG  
148401 AAGAGGCAAA TATTTCAATCA CCAGGCAAGT ATGATCCTTC GCATGTTTGG  
148451 ACTGAGAAAA CTGAGCCTCA CAGACAACAA ACAAGGTGAA AAGTTGCCGT  
148501 TTGAACCCAA GCATATTTAA TATCAAAGTC CTTTCCCAA TTCAAAGCAA  
148551 CCTTCCCAAT GAGTACTAGT CAATGAAGGT TTATTGGTTT TCTTTGGGTT  
148601 GTTGTITCTT ACATTACTA TAGATTTTTA TTTTATTTT TACTATTTCT  
148651 AGATCTGTGA TATTAGGAAA ATGGCACACG TTTTAAAGCA TTTAATCTGC  
148701 TTAAATTTCT AGGTAGTTGG CTGTCAGAAA GTAAGTTTGA ACTGACATAT  
148751 TAATTTTCTT TATTATTTCT TGTGTTGGAT TATGTTTATG ATATCAGTGC  
148801 CTGAGGTTT AGGATTGGGA AACAATTTCT TTCAAAAAAT TGCTTTTGTG  
148851 AGGTGGTAAA TTGAAGTGT AGTTTAAAG TCACTTGTTC CTCGGGCTGG  
148901 GTGTGGTGGC TGAAGCTGTG AATCCAGCA CTTTGGGAGG CCAAGGCGGG  
148951 TGGATCACCT AAGGTCAGGA GTTGGAGACC AACCTGACCA ACATGGAGAA  
149001 ACCCGCTCTC TACTAAAAAT ACAAAATTAG CCGGGCGTGG TGGCGCATGC  
149051 CTGTAATCCC AGCTACTCGG GAGGCTGAGG CAGGAGAATC ACTTGAACCC  
149101 AGGAGGCGGA GGTTCGATG AGCCGAGATG GCGCCATTGC ACTCCAGCCT  
149151 GGACAACAAG AGCGAACTC CGTCCCCCTC CAAAAAATAA AAAAAGAAATC  
149201 ACTTGTCTCT CTTATTCTGT GTTTGAATCA AAATATACA AATGTAATGA  
149251 ATATTGTCTG TGTAGTGTG GAATTTTAC TGGGAAATCA TGGCAAGATG  
149301 GAAAAATACA TGCTTTTATG TCACTCTCTA TGTAAACAGT TTATACAAAT  
149351 CTGAGTTTAC ATGAGCACA TGCAGCTTAT ACATCTGTAT AATAGCTGAC  
149401 AAAGGTAAC TGTGTGTCTT TCTGCATTTA TAGGATATCT TATTAATCTA  
149451 AAATAGGTTT CTGCTGAATG TTGATCATAA TCTAAAAAT AGTTTATCAT  
149501 GTAGGTGATA AGCTAGATTA CTCAAGACAT TATTGATTTT GGACATTTAT  
149551 CAAATGGTTT TTGCTTTCAT ATTTTTCAG TTTTGTGAT TATTCATTGT  
149601 TAAATATTTT TTCAGTACAG CTTCTTTTCA ACTGTAATAA ATAAGGAACT  
149651 TTTATTTTTC TTCTGGAGTA CTGATTAAAA GATGGCTGTA GTAGATATTT  
149701 CAGCTTTACC ATGGCACATT GGTGATTTTG GCTTACAAAA TTTTAAAAAA  
149751 TTATTTATGA TGAATGAGT ATAGGCTCTG GAATCAAGTA AATGTGCTTT  
149801 TAAATCCCAA CTCTTTTATT TGCTAGTTGT GGAATCTTAA GCCATTCAAC  
149851 CTTTCTGTCT CAGTTTTTTA ATGGCCCTCA CAGCAGTATT TACCTCACAG  
149901 CACTATTATT GGGATTACTT AACTAATACC TGTAATGCAT GACACAGAGC  
149951 AACTTACACA TGTGTCAACT CTTATTAATA CAGTGTCTGG GAAGTAGGTA  
150001 TTCAATGAAC AATAGATAAT CTTATAAATT ACTTAATTTT GCCTCACAGC  
150051 ACTGTGTGGG AAGTCAGAAT TCTCCATTTT CAAGGCTAGA AGTGAGGCAC  
150101 AGGTAAACTT CCTGGTGTA ACATAATTAT ATACTGAGCT TTAGTAATGC  
150151 TGTAACAAAA TGGTTTATCA GAAACAAGGA GGTTAATTTT TGTTTATGGG  
150201 AATCAGAGAT CTTTGTGAGG GATTATTTTT AAAACAGCCC AAAAAAGTGA  
150251 GCAAGAAACC TTAAGAAATC CTTGATGTTG TTAGACTCTT TAAATATTTG  
150301 TCAAAATGTA ATTGCCAGCT GTATAACATA GCTGGAATTT TAAACATCCA  
150351 TAATTTCCCA TAATTTTAAA CACTAGGGAA AAATGCAGTA TGTGCAACAC  
150401 AATATAATTT TGCTTTTCTC TAGAGTTGTT TTTCAAGAAG TCCAGTCTAA  
150451 CATGGATTTC TTTAGTTCAA GAGTTTGTG ATATTGGAAA TGATTTATTC

FIGURE 3QQ



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150501 AAAATGCATT TGTTTATGGA AGAACAACT TCTTTCCTAG GGATAGAGAT  
150551 TGTATTCTAT AGGTAAATTT ATTACTGTAA TATTAACCTG TTTTATTTGG  
150601 AGTGATATGT AATGTTTGTG TTCACATTTT TTAATTGACA AAAATTGTGT  
150651 GTACAATGTG ATGTTTTGCT ATATGTATAC ACATAAAATG ATAACATAAA  
150701 GCTACCTGAC GTATCTGGCA CCTCACATAT TTGACACTTT TTGTGTGATG  
150751 AGGACATTTA AAATCTACTG TCTTAGCATT TTCAAATATG TAATACATTA  
150801 TTATTAATTA TCATAACCAT GCTGTATATC AAACCTTTTA AGATGTTTAA  
150851 AACATGAATT CCTATTCTTT TTTTTTTAAA CTGAAAAAAA ATATGGTTAC  
150901 CTTCTCCGGC CTATCTCCTT TTCTTTCTTC TTTCACCTAA GGAAATGATG  
150951 TTAAAAACAT TTAGTTTTTT TCATAACTTA TAAATTGTAT CTTTATTACA  
151001 GATTTTTACT TTTTGAAACA GTAAAAATCA TTGACAAAAA TGATGTTTTT  
151051 AAAATAATTT TATTCTTCAT GAATTATAAC TTGTTTTATT TGTATACATG  
151101 CTTAAAAATC TTAAAAATAT AAATTTGTCT CTTTTTCTAT TTTTACAAAA  
151151 TATCAAGGAA CTAGAATAAT GTTATCATCT TCAAGGTATT TATGCGGTGA  
151201 AAATGTAATT CATACTCCTC CCAAACTTTG CTATGGAGAG GGGGAGTATT  
151251 TTTAGAAAGA ATCTCTTTTT ATGTGTTTGT TCCTGTCCAA ACTTATTTTC  
151301 TCTCAGGTGG TTGTACTCAT TACTACTTCT TTGTCAAAGA AAACTGACTC  
151351 TTTCTCAAGT ATATAGGTTT CTTAATCTTA GTAATTTATT TTGAAAGAAG  
151401 TTCAAGTCGG ATTTGTCAGG TCAACTAAAG AAAAGGAAAG GCAAAACAGA  
151451 ATCTAAAAA TTTAGATGTA TTGTTGACAT TTTTAATGAG TGAGCATTTA  
151501 CAGGTGTGTA TGCAAAACAG TAGTACCATA ACATTTACAG TTTCTGTTTC  
151551 TAGGATAATT CATATTTAGG ACTCAGAAAT GCCCTGTTTG TACCTGTTTT  
151601 AATATTAGTC ACTGATTGCA GAAGTTATTT TGATAGATG ACTTTTGGAA  
151651 TAAATCTTAA ATGTAATGG TGGTCACAGA CAGTTATCTT TAGTTAGAAG  
151701 TAATTTTATT GCCTTCAACA TTTCAGAGTT TTGAGTCCAT TCTTGATCTC  
151751 TTTGATTTCT TTCAATAGTT TTGGGACATT CTCAGATAGT ATTTTTTTTT  
151801 TTTTTTTGAG GCAGAGTCTC GCTCTGTTGC CCAGGCTGGA GTGCAGTGGC  
151851 GCGAACTTGG CTCACTGCAG CCTCCACCTC CCAGGTTCAA GCAATTCACC  
151901 CTGCTCTGCT CTCTGAATA GCTGGGATTA CAGGCGCAGC CACCATGCC  
151951 TGGCTAATTT TCGTATTTTT TAATAGAGAC AGAGTTTCAG CTGTTGGCCA  
152001 GGCTGGTCTT GAACTCCTGA CCTCAGGTGA TCCATCCATC TTGGCCTTCC  
152051 ATTCTCATAA GGGGACTCTA TACTTTTTTT TTAGGCCTTT CCACTGGATT  
152101 ACATATGTCT TTTGCACTCT ATTCTGTTTC CATTCTTTTT TTTTTTTTTT  
152151 TGTCACTTTG TGTATTCATT TGGATGCTTT CTAGTAACCA GTCTTCCATT  
152201 TTAAGAATCC TCTGTTCTGT TTTCACTAAT CTCCCATTA GACTATCTTT  
152251 TGAGTTCTTA ATTTTTATTA TAGTTTTTAG GTTTAGGATT TCCCTTTGAT  
152301 GGTTTTCTAA TGGATTCCAA GTCCCTGGTG AAATTCAACT TTTTAAAAAT  
152351 TTTGCTGAG TTATGTGGA TTTTGTGTTT TACTATATTA GCACTATCTC  
152401 TTGCCAGATT GTATTTTAA TTTGTTTACA GATTGTAATT CACTAGGATC  
152451 TCTCCTCTTC TTAAGAGAAA ATTAAGAGGG AGATGGGATT AAAGCCAAAT  
152501 GATACTCTAG AAAGCCTTTT TCAAAAAATT TCTTCTTTCA TTTATAGAAT  
152551 TTAGGGTTTC GAGGAATGGG ATGAATAGAG ATGTCTATGC TTTTGTGAT  
152601 AACATGGTAT TTTGGGTTTT TCTCAATTGT TCCATCTCTT TTTTGGGGGC  
152651 GGTGGGAACG GAGTCTTGCT TTGTGCGCCA GGCTGGAGTG CAGTGGCGAC  
152701 ATCTCAGTTC ACTGCAACCT CTGCCTCCTG GGTTCAGCA ATTCTCCTGC  
152751 CTCAGCCTCC CAAGTAGCTG GGATTACAGG TGCAATGCCAC CATGCCCGGC  
152801 TAATTTTTGT ATTTTTTCAG TAGAGACGGG GTTTCACCAT GTTGGCCAGG  
152851 CTGGTCTCGA ACTCTGACT TTGTGATCCG CCCACCTTAG CCTCCCAAAG  
152901 TGCTGGGATT ACAGGCATGA GCCACCAGGC CCAGCCTGTT TTATCACTTT  
152951 ATAATCATTA TTTTFACTGT AGCTTACTTA ATGCCCTGTG TTGAGTTGAG  
153001 CGTCTAAAGC AATTAGGATA TTGGTAATGT TTCTGTTTGT GAAATGATTT  
153051 ACGCAATCTT GGCTTACTGT AACCTTCGCC TCCAGGTTTC AAGCGATTCT  
153101 CCTGCCCTCAG CCTCTCGAGT AGCTGGGATT ACAGGCGCCT GCCACCATAT  
153151 CTGGCTAATT TTTNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
153201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
153251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
153301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN  
153351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNGC  
153401 CGGGCATGGT GGCTCACGCC TGTAACTCTA GCACCTAGGG AGGCTGAGGC  
153451 AGGTGGATCA CCTGAGGTCA GGTGTTTGAG ACCAGCCGGA CCAACATGGA  
153501 GAAACCCCAT CTCTACTAAA AATACAAAAT TAGCTGGGCG TGGTGGCACA  
153551 TGCCTGTAAT CCAAGCTACT GGGGAGGTTG AGGCAGGAGA ATCACTTGAA  
153601 CCCAGGAGGC AGAGGTTGCA GTGAGCCGAG ATCATGCCAT TGCACTCCAG  
153651 CCTGGGCAAC AAGGGCGAAA CTCCATCTCT AAAACAACA ACAACAACA  
153701 AAAAAAACA AAAAAAAG AAAGCTCCCT GAAGTGGGTG CAGTGGTTCA  
153751 TGCTTATAAT CTCAGCACTT TGGGAGGCCA CAGGAGTTCC AGACCAGCCT  
153801 GAGCAACATA AGACTCCCAT CTCTATAAAA AATTTAAAAA AATTAGCCAG  
153851 GCACGATGCG ACAAACCTAT AGTTCTAGCT ACTTGGGAGG CTGAGGCAAG  
153901 ATCACTTGAG CCCAAGTGTT TGAGGCTGCA GTGAGCCATG ATGGCACCAC  
153951 TGCACCTCAG TCTGGGCGAC AGTGAGACCC TGCTCTAGAT TAAAAAGGCT

FIGURE 3RR



154001 GCATGAAAAG TTTTTTTTTT CCTTACCTGT GATTTAAAAC AAATTCAAAA  
154051 TAAAAAACAG TTATACAGTT TTAGTTTTTC CTATTTTTCT GATGAGTTCT  
154101 CATGTAAAAA CTGCTTATAA TAAAGCTTAG ATATGATATT CTTTAACTT  
154151 AGTTATCTGT TGATGTGTAC AGTTATTTAT GTTTGCAACA TTCACTCTAG  
154201 GGTTTAAAGT ATAAAATTAT TTTTAAATTA TATGATGAAA ATTTATGTAC  
154251 ATTTAGATTG CCTTATTTTT TATTTTTATT TGTTTTTTTT AGAGATGGGG  
154301 TGAGTCAGTC TCTTAGCCTT TTTTTGGGGG GTGGGGGGTG ATAAACAAGT  
154351 AAACATAGAA GAGATTACCA GTCAGTATAT ATTCAGTGAC ATTTTATGTC  
154401 TTGGGTTAGG GATTTTTTTC CCCTCTTAAA GGAGACTTTT TGCTTTTGAC  
154451 CCCCCAAAAG AATCAGTGTA GAAATAAAGA TAACTGCAAC ACTGTCTTTA  
154501 GCCTTATTTT GAACTCAGAC CTATCTACTG AGTACTATCT ACTATCTACT  
154551 GAGCTCAGGT CTATCTTCAG AATACTCCCA TCTAGATGTT TCAGAAGTAC  
154601 CACAGATTTA TACTTGTTTT CTCTTTGGTG CAGTTGTTAT TCTACCCAAG  
154651 ATCATTITGG GGAAACTCAA GCCCTGTGCT GTGTGTGTGT GTGTGGTGGT  
154701 GGTGGGGCGG GGGGGTTGTG TGGTGTGTGC ATGTGTGTAA GTGAAATTTT  
154751 TTTTTCCTGT TGTGTTTTTT TTTTGGACAG TTTGAGACAG AGTCTCACTT  
154801 TGTGCCCAG GCTGGAGTGC AGTGGCGCGA TCTCAGCTCA CTGCAAGCTC  
154851 CGCCTCCTGG GTTACACACCA TTGTCTTGCC TCAGCCTCCT GGGTAGCTAG  
154901 GGCTACAGGC GTATGCCACC ACGCTGGCT AATTTTTTGT ATTTTATAGT  
154951 GAGATGGGGT TTCAACATGT TGGCCAGGAT GGTCTCGATC TCCTGACCTC  
155001 GTGATCTGCC TGCTCGGCC TCCCAAAGTG CTGGGATTAC AGGTGTGAGC  
155051 CACCGTGCTT GGCCCTTTT TTTCTATCT TAAACCCTT TACTGCTCTT  
155101 GTTACCTGCA TGATGTCTAA GTCAAGAACT GTGAAAGATC TGGGGTTTTT  
155151 TACTTGCAGG CTAACAAGTA GCCTTCCACA GTTGCATGGA TACTGGCAGA  
155201 AACCATTGAGG CTCATGGGTC AGAAACGAAT GACTTCATTA TTCACAGCAC  
155251 AGCAAGCAGC AAGAATATCT GTATGTTTGT ATCAGTTTCT CCTTTACACT  
155301 GCATCCAAAA GAGGTGATGC ATATGGGCCA TATGGATATC TGCACATCTG  
155351 GTAGGTTGCA TTACAGGACA GGAATCCAC TCTTGGTTAA CTCAGATCTT  
155401 TTATCTTGGG CAGTAAGCTT GCCTGCCCTT TGCCCTGAG GGAGGTAGAT  
155451 GAATTGTGTA GCTTCTGAAG CTCTAACCAA ACCTACTCTT TGCTCTGGAG  
155501 GGGGACGTTG TTTCTTGTTT TTGTCTTCA CCATTTTAAG TGTACAATTC  
155551 AGTGGTACTT CAGTATGTTT ACAATATTAT GCAGCCATCA CCACTAATTC  
155601 CAGAACATTT CCATCACCCC AGTTAGTGCC TTGCTCATAA GACTGAAGAA  
155651 ATGTGAAAGA CCGTGGAGA ATTGTCTCCC AAAACACACA TTATTTGTAA  
155701 GAGAAATCA TATCTTACAC AGATTATATT AATGGCAAAG TAGCATGGGA  
155751 GAGGGTCACA GAAGTGGGTT GGACGATTCC GTTAAAAGCA GGGAACTTC  
155801 TAGTTAAGGC ACTTGGATAG GCATTGGGTG AGAGTTTTCA TGTCTTTTCT  
155851 GCTAGATTGT TCCTGTTTTT TTTCTCTATG TGCACCTGAT TTTATGCTTT  
155901 TTTTCATCTA GCACATTATC TTTAATATAT TTGACATTGA ACATTTGTTT  
155951 GTTAAACCAC CAAAAAGTTT CAAACAAGAG AAATCTGTTT TGACTGTTGG  
156001 AAGGCAGAGA CAGCACAAGA TTAGCCTGTT CTGCTGAAGT CATAGTTCAA  
156051 CCTTAATGAA CGTCAAGGAA TAAAAGACTG TACATATGAG GTGTGTAGTA  
156101 TTAGCGTGT TTGAAAATCA TATACCCAGT AGAACAACAA ACTGATTTTG  
156151 CTGCTTTTGA ATGTGCACAT ATTATTTTTG TGCATTAATA ATAGCTAGTC  
156201 AGTGTTTTGA ACTGAGACTT TTGTCTAGAA TTGTATAGAG GTAAAGAGCA  
156251 TGGATTACG TAGGCTTAGT AGAAGAACTA ATTTTAAAT AAATGGTCAC  
156301 ATCAATAAGC CTAAGTCAGG TTATCAATAA ATATTTATAA GTGTCTGTAA  
156351 CTTGCAAGGC CATGTGAGG AATGTTTCAG AGTCCCCAAC TTCAATCTAG  
156401 AATGGAGATG GCTACCAAAA AGTATCTTTG GATTCTAGG ACCCACAGAG  
156451 ATTGACTCAG TGGGTTTGAT TGTTACCCTG GATTTCATGG TAACACTAAA  
156501 TGGTTACCCA TGGGTAATCT AAAGCACAGC TAGATTTCTG AACCTTTATT  
156551 TCAGGATAGC TGAAAAACAT AGAGATGAGA CATTAAAGCC CCCAGTCTC  
156601 TAACAGCTAC CTCGACCAG TTCTTTGTTT AGCATAAGGA TTACCTTCAC  
156651 CTAGGAACTT TTTGAAGTGT CCAGTGCCCT CCTTGTGCT CTGATTTTCT  
156701 TCTGTTTTGC ATTGTTTGAG AAGTTATGTT GTTATTACTG TTTTATGAG  
156751 GGAATGGTG TTAGGAATGA GGGGTTCTCT TTCTATAACA CTCCTGAGG  
156801 GAATAGGGAC AGTCTTCTTT AATCTTCTCA TTTCTGTTT CTAAAGTAGT  
156851 GCCTGCCAGC TAGTGTTTAT TGAACAAATA AATTGAATTG AATGAATTGT  
156901 TATACATTCT AATGAAATTA TTCCCTTAT TTTTCTTCCA GTCTTCTCC  
156951 TGCCATGCCA CAATGATCTT TGCCTAACAT GAGATAAAAC TTACTTAGCT  
157001 ATTTTITTTT TGCTTGGTAA ACTCAAGTAA TACATTCACT CTTTCCAGTA  
157051 AGACACTTGG CCATCTTACT AATTCATTGG GAGAAATAGA GAGCATATAT  
157101 ATAACAAAG ATAGGATCTG ACATTATTTG GATGTAGCTC CTGTTAGAAG  
157151 GCAAAGCAAG CAATAACATG CATAAATTAG ATGTGGCATG GCCCAGGATT  
157201 TTGTCTTTTG ATGAAAGTAG GCCATTCTT TGGAACTGTT TAGTTATGTT  
157251 CCAAGAACTC CTCTAGGTAG GGCACAAAAA TTAGAAGAAT TCTGTTTTAT  
157301 CTAGTAGTGT AGTCAGGTTA ACATTTTTTT GTTGATGTGT AACCTCGCC  
157351 AATGCTAGGA GTATAACCTT CCTATTGATA AATCCAGTTG TTATTTTTTA  
157401 TTTCTTTACT TGAATCGAAA ATATTGACA CAGTTAACTC CAGCTTTTTT  
157451 TTTCTTTTCC TTCTTTTTTT TTTTTTTTTT TTTTGAGAT GGAGTTTAC

FIGURE 3SS

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157501 CCTTGTGGCC CAGGCTGGAA TGCAGTGGCG AGGTCTCAGC TCACTGCAAC  
157551 CTACGCTTCC TGGGTTCAAG CGATTCTCCT GCCTCAGCCT CCCGAGTAGC  
157601 TGGGACTACA GGCGCCCACT ACCACACCCG GCTAAATTTT TGTATTTTTA  
157651 GTAGAGATGG GGTTCACCG TGTTAGCCAG GATGGTCTCG ATCGCCTGAC  
157701 TTCTGTATCC ATGCGCCTTG GCCTCCCAAA GTGCTGAGAT TACATGCATG  
157751 AGCCACCGCA CCTGGCCAAAC TCCAACCTTC TTGATACACT ATCCCTTTTA  
157801 TTCTTTGGTT TCCTTCTTC TTCTCTGATA CCGGTAAAAT TCATATATTG  
157851 AAGCCCTAAC CCGAATGTG ATGGTATTTA GCGATGAAGC CTTTGGGAGA  
157901 TAATTAGGTT TAGATGAAGT CGTAAGGTTA GTTCCACAT GATGGGATTA  
157951 GTGCCCTTAT AACAGGAGAT AGCAGAGAGC TAGCGCTCTC TCAAGTTTGT  
158001 GCTCTCACTC TCCTCTGCCC ATCTGAGGAC ACAGCGAGAC CGCAGCCACC  
158051 TGCAAGCCAA TAAGAGAACT CTTGCTGGAA CTGCCCATT CTGGCATGCT  
158101 GACCTTGGAC TTCCATCTAC CAGAATGTGA GAAAATAATT TCTGTGTTT  
158151 AAACACTGTA ATTTATGTTA TTTTGCTCTG GCAGCCCAT CTGACTACTG  
158201 CACACCCCTT CTCTTTGCA AATTCCTTA TCACTTCTG TACCTAAAAT  
158251 ACTGGGTGTA GCATTCTCTT CATTATGCAT TTACCTTCT TCTAAGCTATG  
158301 TATTTTTCT CGGTGATCTA TTTCCATTCT CCAGGTACCA TCTTTATGAC  
158351 AAGGACTGGT AAAATTTGTA TTTCCATTTT GTACCTCTT CTAACCTTAA  
158401 ATATCTAAAT CTCCAGTTGT CCCACAGGAC AACCCACCAT GTTTACAGTT  
158451 AAAGTTTTT TCATCCGGTG ACTCCATGGA GACATTAGTT TATCAGCCCT  
158501 ATTGATTGTA TTTCTTAAT ATTTCTCACA TATATCCACT TCTGTCTCTT  
158551 TTGCCATGAT TTTAATTGAG ACAGCTAACT ATCCGTCTG GATCGCTCCA  
158601 ACATTTTTCT AATTGACTGA CATCAATAAT ACTCTTAAAT TTATTTATTT  
158651 TTTCTAAATA GACTTTTTT TTTTAGAGTA GTTTTGGTT CACACCAACA  
158701 TTGAGTGGAA AGTACAGAGT ACTCATATAT ACTCTGTCTT CAGAAACACA  
158751 CAACCTCCCC AGCTGTTAAC ATCCTGTGGG AGAGTGATAC ATTTGTTACA  
158801 ATCTATAAAC CTACAATGAC ACATAATTAT CACCCAAAGT CCATAATTAA  
158851 CATTAGGGTT AACTCTGGT ATTGTACATT CTGTGGGTT GGATGAATGT  
158901 GTAATAACAT ATATCTACCA TGATACTGTC GTACAGAATA GTTCCACTGC  
158951 ATTAATAATC CTTTGTGCCA TCCCTGTTC TTTCTGCCT CTCTGTAACC  
159001 AGGTGTTAAC CTGGCAACTG ATCCTTTTAC AGTCTACGTA GTTTTGCTC  
159051 TTTTGAATA TCCTATACAT TCCTATGCAG TGTCTCTGTA GTTGAATAA  
159101 TGCAATATGT AGCTTTTCCA GATTGGCTTC TTTTATGTAG TAGTATGCAT  
159151 TTAATATTCC TCCATGCCCT CTCATAACTT GATAGCTTAT TTCTTTTAG  
159201 CACAGAATAA TATTCCATTG TCTGGACCTA CCTCAGTTA CCCATTAAAC  
159251 TACTGAAGGA CATCTTGGT GCTTCCAAGT TATGAAGACT GTGAATAAAG  
159301 CTTCTGGGAA CATCTGTGTG CAAGTTTTT GTGGATATAA GTTTTCTATT  
159351 CCTTTTGATA AATATCCAGG AATGCAATAG CTGGAACCTG TGGTAAGAGT  
159401 ATTTTGTAGT TTCTGAGAGT TTATTTTTC AACTTCCAAA CTGTCTTCAA  
159451 GAGTGGTTGT ACCATTTTT ACCCCATCAG CAGTGAATAA AAGTTTCTGT  
159501 TGCTTCACAG CTTCATCAGC CTTTGGTGT GGCACCTTC CTGATTTTGG  
159551 CCATTCTAGT GGGTGTGTAA TGGTATCTTA TTGTTTTCAT TTGCAGTTCC  
159601 CTAATAATAT ATGATGTTGA CCATCTTTTC ATATGCTTAT TGTTTGTGTA  
159651 TTTTCTTTGG TGAAGTGTG GTTCAGTTTT TGGCTATTT TTTAATCTGC  
159701 TTGTTTTCTT GTTGAGTTTT AAGAATCTT TGTATGTTTT GGATAACAGT  
159751 CTTTATCACA TGTGTCTTTC GTAGACACTT TCTCCAGTC TGTGGCTTGC  
159801 CTCTCTATT TCTTGATGTC GTCTTTTACA GAGCAGAAGG TTTTGTGTTT  
159851 AATAATGGCC AGCTTATCAG TTGTTTTATT TGTGGATGAT GTCATTGCCA  
159901 TTGTACCTAA ATAGTCATTT CCATACCCAA GGTCATCTTG GTTTTCTCTT  
159951 ATGCTGTCTT CTAGGTGTTT TATAATTTGT GTTTTACATG TAGGCTGTGA  
160001 ATCTACTCCG AGTCAGTTTT TGAAGAAGT GTAAGGGATG TGTCTAGATT  
160051 CATTTTTTT GCATGTGGAT GTACACTTGT TCCAGCATCA TTTGTTAAAA  
160101 GGACCATCTT TGCTCCCTTG TATTGCCCTT GCTACTATGC CAAAGATTAG  
160151 CCAGCTGTAT TTATGTGGGT CTATTTCTAG GCTCTCTGTT CTGTCTGTT  
160201 GGTACTTTTT GTGTGTGCT CTGTCTCTCT CTCTCTTTT TCTTTTTTTT  
160251 TTTTTTTTGG TCACTACCAC ACTGTTTTGA TTAAGTGTGC TTTATAGGAA  
160301 GTCTTGAATT TGGATAGTGT CAGTCCCTGCA ACTTTGTCT TTTCCCTCAA  
160351 TATTGAATTA GCTATTTTGG ATCTTTTGGC TCTCAGTATA AACTTTATAA  
160401 TGGGTTTGTG AATATTCATA GAATAACTTG TTGGGTTTT GTTGGGATT  
160451 GCATTGAATC TGTGGATCAA GTTGAAAAGA ATTGACATCT TAACAGTGT  
160501 GAGTCTTCTT TTCCATGAGT GTGGAATATC TCTCCATTTA TTTAGATTTT  
160551 CTTTCAATTTT CTTTCAATGG TGTGTTGATT TTTTCTCATA TAGATTTTGT  
160601 ACACATTTTG TTAGAGTTAT AACTCATTTT TTTGGGGTGC TAATATAAAT  
160651 GATAATGTGT TTTTAATTTG AAACACTTTT TAATTGCTGA TATATAAGAA  
160701 TGCAGTTACT TCATAGGTTA ACCTTGATC CTGCAACCTT GCTATAATTG  
160751 CTTATTAGAT TCAGGAGTGG TTTTGTGAT AATTTCACAC TTTTACATA  
160801 GATGATCACA TCATCTGCAA AGACACTTTT ATTTCTTCT CCCCTATCTG  
160851 TACCTTTTAT TTCCCTTCT TATGTAGTGT GATGTTGAAA AGGAATGGGC  
160901 AGAAGGGTCA TCCTTGCTT GTTCTTAATC ATAGCAGAAA AGCTTCTAAT  
160951 TTCTACCAT TAAGTGTGAT GTTAGCTGTA GGTTTTTTGT AGCTGTTCCT

FIGURE 3TT

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161001 TACCAAGTTA AGGAAGTTCT GCTCTATCC TGGTTTGTCT AGAGGTGTTT  
161051 TTTTGTGTTG TTTGTTTTAC CAATAATGGG TATTGGATTT TGTCAAATAT  
161101 TTTCTTCATC TATTTATATG ATTATGAGAT TTTTTCTTC AGTCTGTTGA  
161151 TGAGATGGAT TAAATTAATT GATATAATGT TACATCAGTT GTAACATCAA  
161201 TTGTAATGTA ATGTTTTCAA GTGTTAACT AGCCTTGGGT ACTTGGAAAT  
161251 AATCCCACTT TATAATGGTA TATAATTATT CTTTTTTTTT TTTTCTTTT  
161301 TTTTTTAAGA GACAGGGTCT CACTCTGTTG CACAAGCTGG AGTGTAGTGG  
161351 CACAATCATA GCTCACTGCA TTCTTGAAC CTGGGCTAAT GTAATCCTCC  
161401 CACCTCATAA TTATTTTTAC ATGTTGTTAG ATTTGATTTG GTAAGATTTT  
161451 GTTGAGGATT GTTGCACTA TGTTTATGGG CAATATTTGT CTGTAGTTTT  
161501 CTTTTTTTGT GATATGTTG TTTGGTTTGT GTATTCGTCT AATTGTGGCT  
161551 TCATAGAATG AGGAAGTATT CACTCTGCTT CTATTTTTTA AAAGAGATTA  
161601 GAGAACTGGT GTAATTTTTT CCTAAATGT TTGGTTGAAT TCACCAGGAA  
161651 ACGATCTGGG TTTTGTGCTT TCTGTTTTGA AAGGTTATTA ATTATTTATT  
161701 TAATTTCTTT AACTGACACA GGCCTATTCA ATTTGTTTAT TCTTGTGTGG  
161751 GTTTTGGCAG ATTGAAGTTT TTAAGGAATT TATTCATTTT ATCTAGGTTT  
161801 TCAAATTTTG GGCCATAGGA TGTCTTAGTT TTTTAAAATT ATCCTTTTAA  
161851 TATATATAGA TCTGTAGTGA TGTGCTCTCT GTCATATCTG ATATTAGGAA  
161901 TTTATGCTTT TTCTCTTTTT TTGCTAGATA GCCTGGCTAC AGGCTTATTG  
161951 ATTTTATTGA TTCTCTGAAA GGACCAACTT TTAGTTTCAT TGTTTTTTTC  
162001 TCTTTTGACT TCCTATTTTA GATTTCAATG ATTTCTGCTC TAATTTTAT  
162051 TATTTCTTTC GTTCTGCTTA CTTTAGCTTG CTCTTCTAGT TGCTTAAGGT  
162101 GAAAGCTTAG TATTGATTTT AGATCTTCTC TAATATATAC TCTCAATACT  
162151 ATAAGTTTTG CTTTAAGTAC TGCTTTCTCT GCATTGACAA ATTTTGATAA  
162201 GTTCTATTTT CTGTATATAT TTATAGACAA TAGAACTTTG ATAAGTTCTA  
162251 TTTATATATT TATAGATATA TATCTATAAA ACTAGTGTAT ATATGTAAAT  
162301 AGTATATATA TATGTGTGTG TGTGTGTGTG TGTGTGTGTA TATATATATA  
162351 AAGAGAGAGA GACAGAGACA GAGACAGGGT CTGCTCTGCT TGTCACACCC  
162401 TCAGTGCAGT GGTGTGATCA CAGCTCACTA AGGCCTCAAC CTCCTTGGCT  
162451 CGAGTGATCC TCCTGTCTCA GCCTCCCAAC TAGCTACAAC TACAGACATG  
162501 CATCACCAGG CTTGACTACA TTTATTTTAT TTTTATGGA GATGGGGTCT  
162551 CACTCTGTTG CCAAGGCTGG TCTCAAACCT CTGGCTTCAA GAAATCCTTC  
162601 CACCTCGGCC TCCCAAAGTT CTGCGATTAC AGGCGTGAGC TACTGCACCC  
162651 GGCCTAAAAA TATTTAAAAA TTCTCTTGA AGTTTCTTTT TTTTCTCTTT  
162701 GTATTACAAG TGTGTGTGTC AGTCTTTTAA GTATTTTGA ATTTTTTTTT  
162751 TTTAGCTGTT TGCTGTGAC TTTCAGTTTA ATTCTATTTT GGTCTGAAAG  
162801 CAGACATTTT ATGATTTCTT TFAAATTTGT TCATGTGTGT TTTATGGACA  
162851 AGAATGTGGT CTATCTTGAT GAATATCTG TCTGAGTTTA TGAAGAATGT  
162901 GTTGGCTGTT GCTGTATGAA TTAGTGTGTA GATATAAGTT ATATCCAGTT  
162951 GAATTGTGAT TTAGTTCAAC TATGTTCTTA TTGATTTTTT TGCTGTGTGG  
163001 ATCTATTTCT AATAAAGTGA TGTGGAAGTT TTCAGCTATA ATAGCGTATT  
163051 CATCTGCTTC TCCTTATAGT TCTATTAGTT TTTGCTCAC GTTTTGCTGA  
163101 TTTGTTGTTA GATGCATACA CGTTAAGGAT TGTTCTGTCT TCTTAGACAA  
163151 TTTACCTTTT TATCATTTA TAATACCCCT TTTGGTCTCT GAGAATTTTG  
163201 CATGCTTGAA GTCTACTGTG TCTGGAATCA ATATAGCTAC TCCAGCTTTC  
163251 TTTGGCTTAG TGTTAGCATT GTATGCTCTT CTTCATTTTT TTTACTTTTA  
163301 AGCTATATTT GTTTTTGTG GTAAAGTGGG TTTCTGTAG GCAATATATA  
163351 GTTAGGCTTT ATTTTTTAT TCATTCAATC TCTGTTCTTT AATTGGTGCA  
163401 TTTAGGCCGT TGATGTGTAA AGTGATTATT GATATAGTTG GATTAATATC  
163451 TAGGATATTT GTTACTGTTT TCTATTAGTC GCCTTTGTTT TTCATTCCCA  
163501 TTTCTTCTTC TCTTTCATGG CTTTAAATGA GCATTTTATG TTTATTTATT  
163551 TTATCTCTTT TCTTAGACTG TTAAGTTTTT TGGGTTTTTT TGTTTGTTTG  
163601 TTTTTCAGTT GTTACCCATA GTTTTGCAAT ATATTTCTAC TTTCAAATAG  
163651 CCTATTACAC TTCACAGGTA GTGCAAGTAC CTTATAATAA AAAAAATTCC  
163701 TAAGTTATCC TTCTCATGTC CCTGTATCA TTTTGTGCT TCAATTCAC  
163751 TGTCCGTAAT CTATAGGTAT CAAATACATT GTTGTATTT TGAACAAGCT  
163801 TTTCTTAGAT CAGTTAAAAG TAGGAAAAAT TAAAGTTTTT ATCTTCTTTA  
163851 TTTCTTCTTT CTCTTCTTT ATATAGATCA AAATTTCTGA CCTATATTTT  
163901 CTCTTTCTG AAGAACTTTA AACATTTCTT GCAAGGCAGG TCTACTGGCA  
163951 ACAAATTCCT TATTTTATT TGAGAAAAAT TTTCTCCTTC ATTTTTGAAG  
164001 GATGTTTTTG CAGGATATAA AATTATACAT TGGTGGGTTT TTTTCTCTCA  
164051 ATAGTTTAAA TATTGCTTT CACTTCTTT TTGCTCACAT GGTCTCTGAG  
164101 GAGAAGTTAA CGTAATTTCT GCTCTTCTGT AAGTAAGGTG GTCCCCACCC  
164151 CTCGACATAT GACTTCTTAA AGGTTTTTTA AAAATCTTTG ATTTTCTGCC  
164201 TATGTGTAGC TTTTGTGTTG TTTGTTGTT TTTACATTTA TTCTGCTCAG  
164251 TGTTCCTGG ACTTCTGGA TTTGCTATCT ACATTAATTT GGGGAAATTC  
164301 TCAGTGAATG TTTCTTCAAA TATTGGTTCT CTCTTTCTT CTTTGGTGT  
164351 TGCTATTACA CATGCTACAC CTATTTGCTT CATAGTTCTT AGATATTTTG  
164401 TTCTGTGTGG TTTTATTATT TTTTTTTTAA ATCTAGTCCA GTATTTTGT  
164451 TTCATAAAGT TTTCTTATC CTGCTTTTC AGTTTTGGAA GTTTGTATAT

FIGURE 3UU

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164501 ACATATCCGT AAGTGCAGAG ATTCTTTTCT CAGCTGTTTC CGGTTGACTA  
164551 ATGAGCCCAT CAGATGTAAT CTCTATTTCT GTTACAGTGT TTTTGATCTC  
164601 TAGCATTTCT TTTTATAGC ATTTCTTTTT GATTCTTGCT TAGAATTTCC  
164651 ATCACTCTGC TTACATTACT CATCTTTTCT TACTTGTTGT CTACTTTGTC  
164701 CATTAGAATC CTTAACATAT TAATCATAGT TTTTAAAAA TTCTGGTCT  
164751 GACACTTCTA GTGTTTCTGC CACATTTGAC TTTGCTTTTG ATGTGTAICT  
164801 AATTTCTTCA AACTGTGTTA TTTCTGTCTT CGTAGGCCTT GTAATCTTTC  
164851 TTTGATAGCC AGACATGATA TATGGGATAA AATGAATTGC AGTAAATGAG  
164901 GCTTTAGTTA TATAATGGTA AGGTGTTGGG GGGAGTATGG GAAGGAGTGT  
164951 TCCATGGTCC TGTGATTAGG TCTGAGTCTT TTAGTGAGTC TATACCCTTG  
165001 GACTGTGAAC TTCACAATTT TCTCTGTFTA GGTGGGACAG GATGGCTAGA  
165051 TGGAGCTGGA GTTTTTTATT TTCATTCTCC CATGGGAAAG GCTAGAGAGG  
165101 GCTGAAGTTG GGTATTTCTC TTCCTCTGGG TCAGTTGGTG TCTAATAAAA  
165151 CCTCAATAAC ATAAGCTCTG GGAAAAATA TTTTCTCTTG AGGAGCAGGC  
165201 CTTTTTAAGA AGAGAATGCT CTAGTGTATT TCACAATGGG TACTTTTCTT  
165251 TCTCTCTGCC AGAAGCACAG GGTAATTTTT CTCAGATCTT CACTGTGAGA  
165301 AGCTGGTGTG GTTGCTGAAG ATAAAACTCA CAAATGTGTG AGGGACCCCG  
165351 CTCTATGACT CTCAGACTTG TCAAACACTG AACCCCCAGC AGTTTGTFTA  
165401 TTGCAATTTCC AGTTGTCCTA CCCTGGCACT GGCTCTCATG GAGGTTTCTC  
165451 TTTGTGGGTT TCCGCTCCAG AAAGTTGTGA TTTTCTGTAC CTGGGCTGTC  
165501 TGTCTCTCCA ATTTTGGGGG CAGTGATTTG CCCTGTGACC TTAATAATAT  
165551 GATGTATCTA AGAAGAGTTG GTTTTTCACT TTGTTCACT TTTTACTTGC  
165601 TGTTAGGACA GAGCGAAGAC TTCCGAGCTC TTAAGCTTCT GGACCAGAAA  
165651 TTGGAACAAT GCTGTCTTTT TATTGTCTCT TCTCTACACT GCAGGCAGCC  
165701 ATGGTGTGTT TCAAAAAAC AAATCTGATT AGGTCATGTC TCTAGTTGAA  
165751 ACATCCCATT AACTGTAGCA TAAAATCCAA ACTCCATGAT TTGATAACA  
165801 AGGTCTTTGT TTTCAAGCCT GGTTTATTTT TCTGTACTAT CTTTTATAAT  
165851 ACATTTTCTC TTTACTGTTA TGCTGAGCCA TTGTGCACTT TATCCAGTTT  
165901 TTAGTATTCT GTGTTCTCTC TCTTTCCCTC CTTTCAACCCT TTGCTTGCTT  
165951 GATACCCACC AAGTTTTTAG GTTTTACCTT AGAAACCATC TTTCTTATGA  
166001 CAGCCACCTT TGACTCTCCT GAGACCTGTC CATATTACCT TCCTGAGTTT  
166051 TTTCTGGTAT AGAATCACAA GTGATTAGCA GAGTAGATAC AATTAAAGGC  
166101 CTCCGATGTA ATTTATTGGC AGCCTGAAAT ATTTACTATG CTTGTAGTAA  
166151 TTATGAAAGA CCTCTAAAG CTTTTGCCAA CTGTGTTTCT ACTTGACAGT  
166201 TAAACTCCCA CGTGGAAAAG TTATATTATG GAGATTCTTT TGAAGGATGT  
166251 TGATAGTGTT TGGCTCTGTG TCCCCACCCA ACTCTCATGT CAAATTGTAA  
166301 TCCCGTAGG TTGGAGGAGA CTCCTGGTGG GAGGTGATTG GATCATGGGG  
166351 GCAGATTTCG CCCTTTCAGT TCTCATGATA GTGAGTGAGT TCTCATGAGA  
166401 TCTGATGATT TAAACGTGTG TGGCACTTCC CCCTTCGTGC TCTCTCTCTC  
166451 TCTCTCTCTG CCATGTGAAG AAAGTCTTTC CTCTCTCTTC TCCTTCAGCC  
166501 ATAATTCTTA GTTTCTGAG GTCTCCCGGT CATGCTTGCT GTTAAGTGGA  
166551 ACTGTGAATC AATTAAACCT GTACTCTTCA TAAATTACCC AGTCTCAGTA  
166601 GTTCTTTATA ACAGTGTGAG AACGGTCTAA TACAGATATA GAATCCATTT  
166651 GTTTATAGTG TTCAATGTTT ATTCTTACGT AGAGTCAAAA AAGCAAATTT  
166701 GTGTACCGGC AGAGTAGCTA CCTGCAAGAA TTAGTGCCCA AAACAGTTCT  
166751 CATTGACTTT GCAAGTACTC TTTGGTCCCA TATATTTTAA ATACTGGAGA  
166801 AAACCATGTT AAATTAATAA ATTAGCGTTG TGATTGTAT GACAACCTCA  
166851 TGTGCATTTG ATTAGTGTGA GTTAGAGGCT ATTCTCTGT GGATACACTA  
166901 AGTCAAATTT TTGAACCTAT AAGTCTAAAT ACTTAACTAA ATACTTTAAC  
166951 TTATAAGTCT AAATACTGTC ATTTAGAGAT GCTGATTACC TTATTATTAA  
167001 ATATATTACA TGATGATTAT ACTGAGGTGT GCTTCTTTGT CACAGGTGCT  
167051 AACAAAGTTA TTGGGTGTGT ATCTCTTCT ACTTTACGTC CTCTTCCACC  
167101 CAAGTGCATC TAATTGAATT TACATGTTTA ATACGCTTAC AATGCTGTGT  
167151 TACTCTATAA TTGTCCACTC AGTTGTTTAT TACATATTTA TCAATTCCAA  
167201 ATAGGTCTTG GAGGAAATCC AAGCTATTGC TAATGAGAAT TATTTTGCAC  
167251 ATTTTGACTG TGTGATACAG GGTTTGTGTC ATTAGTAGGA TCTGTTGAGT  
167301 TTAATCTTTT TTTTTTCTT TTTTGGGAC AGAATCTCAC TCTGTTGCC  
167351 AGGCTGGAGT GCAGTGGCGT GATCTCCGCC CACTGCAACC TCCACCTCCC  
167401 AGGTTCAAGG TATTCTCATG CTGCGGCCCT CTGAGTAGCT GGGATTACAT  
167451 GTACATACTA CCACACCTGA CTAATTTTTT TATTTTTTTT AGTAGAGAGG  
167501 GGGTTTCCGC ATGTTGGCCA GGCTGGTCTT GAACCTCTGG CCTCAAGTGA  
167551 CCCACCTGCC TCGGCTCCC AAAGGTTTTA CAGACGTGAG CCACTGCGCC  
167601 TGGCCCGAGT TTATTTCTTA AAAACTTATA TTTAGTAATT TTTTGTGTT  
167651 CAAAGGACAT GAAGTTAAAG GATAGTGTGT TTAGAAGTGG CTTTGTAAATG  
167701 GACTTGGTAT GTAACCAAAA GGAAAAAAA CTAGCCTGCT TTCTTTGCCT  
167751 GTTCTCAAG AAATCGGAT TGTGGTGATT ACCTACCTTC TGATGTGTTT  
167801 TAAAAATATT CTTAATATTT ATGAAGAAAC ATCAGAAATA TCCTAGTTGC  
167851 TGTGGATGCG TAATGAGTTT TTTATTTTAC ATAGACTTTA GGTTTCATGT  
167901 GAGGAATGGG TTTGCATCTT ACTCAGTTTT TTATTTCTAAT TTCTGTCAAC  
167951 ATATTTACCA TGTAGAATAT AAACATTGAT TGAACAATTC TCTATGTATT

FIGURE 3VV

168001	TGATGAAC	TTTAAAT	TCCTATAT	TGTTTTCC	TGCTTTTAT
168051	TCTGACAT	ATTTAAAT	TTTTGT	GAATGAA	GAACATGG
168101	GATGATAG	GAATAAAT	GATTTGA	CAGTTGTT	TGAGATAT
168151	TAATGCAG	AATAAAGT	CAATGCAT	CTTCATAT	GAATAAG
168201	ATGATTTC	TTGTTATA	CTATAGA	TTTAAAA	AATAGATA
168251	AGTATTTG	GATAAGTA	GATATTTT	AAACCGTA	TTCAAAAT
168301	GTTCTTTA	TGCTGGAA	GTAGCCGA	GTGTTTGG	TCAGCTCT
168351	ACAGAAAT	ATGGGATT	ACAGCTAA	GATGTGAC	TTTTGGCA
168401	TACTAACG	CCAGATAG	TAGACAAG	AAGAGAGA	GCATTGTG
168451	TATTATAA	TCAAGAACT	GCTTGT	TTTTATCA	TTTTTGT
168501	TGTCAAAT	CTTTCTAT	AGTATTT	TTAGAGGA	TTGAAGA
168551	TAAAGCAG	TCACTGTG	CTGGTTAC	TCTTGTCT	GTCTGGTA
168601	ACAGAACAT	CTTGCA	AGTTATAC	AGCAAGTT	CCACTTCT
168651	ATAGGCAG	AGATACA	GAAGCCTA	ATTCAATT	AGCTAGTC
168701	TCAAGTTCA	GGAAACTG	CCTGGGTG	TGGAATCT	ACTGCAT
168751	CCCCACTT	CTGCAGCT	AGGGCCTC	GAAAGCAC	TGTTCCAG
168801	TTTATAC	GAGTATGT	GACTCACT	GCTAAAGT	TGGAGGAC
168851	CCTGTTTT	GGGAGGAC	GGAGTAGA	CTGGGCTG	CCAGCCGG
168901	CCTCCCTG	TCAGGATG	GCATTTCT	CACATGCT	AGTTATCT
168951	GAGAGCTA	ATGGGAGA	GAGAACTG	TCATTTCA	ACCAACC
169001	GAGCTGTCT	ACAAAGG	TTAACTAA	GGAAATGA	AGAACAAG
169051	AAAGCTTT	TTTACATT	TATTGCTT	GATTCAGT	TAATGAA
169101	ATTTCA	TCCTCAAT	CTACTCCC	ATCTTGAT	TTACTTT
169151	CATATTTCT	TAGAAATT	AAGTTTG	ATTCTTGT	TCATCTA
169201	TATTTCTC	GAGTTTCA	CATTTTCA	TATACGA	TACATTCT
169251	CTATTTAG	AGTACTAG	AGACTCC	TGCCATCA	ACAAGAA
169301	TGAAGAAG	CTGTCTA	TGTTGTTT	AAAGTAAT	GAATAAAA
169351	AATGGATT	TCTATTTT	TAAGAAGT	GTCAAGCT	CACATTA
169401	TAAGTAGT	ACGTGCA	CCAGTCTT	TAAACTAT	TACCACTT
169451	TTCCCTAG	CATAATTT	TAAAGGAT	CAGTAATT	AGTTCCT
169501	CTATATCT	TATGTAAT	TTTATAAG	TTTAAGTG	GTAAACAT
169551	GCTCTCAG	CGTGAACC	TTTCTCTT	TTGTTGTG	TGGCATT
169601	GCCTTGTA	TGACTTTAT	AGCTACTT	TTCTGTGT	CATATACA
169651	TTCTTTCA	TTTAAAG	GTGATTTT	AAAAAGAC	CTTTGAAT
169701	AACTATTAT	TGGCAAG	GCCTTGCT	GGTTAGGT	TTTGCTAT
169751	GATAAAGAT	CTTTGGTA	ATTCAAG	GCTTTGGA	TTAAAAAT
169801	ATTCCTTCC	TGATGCAG	TTTTATT	AGATAGGT	GTCTGAG
169851	TTTATAAG	TTGGGTGG	GTTAAGGC	CTCTGAAG	TATACAA
169901	ATAAGACT	ATCTTAAC	GGACTGT	AACTGCTG	AGAGCCCT
169951	AAGTTTAC	AATTCTGC	CTGGTTCA	AAATAAAG	TGCTGAAT
170001	AGAAAAAT	TTCTCCTG	AAGAATT	TGTATTTT	TGATATTT
170051	TTCTGTGT	CCCTGTGG	AATAAGCT	AAAATGCT	AGGATTTT
170101	TCACTACG	TTAATCTA	AGTAGCCT	TTTGGCTT	TAATGTTG
170151	TGTCCTCG	ATTAGATA	TTTCTTGA	TAGGATGT	GGCTTAC
170201	AAACTTA	GCATTTT	AAATCAAG	GTCTGACT	GCCTGTT
170251	TGCTTGAT	GTGTTTCT	TTCTGTGT	CAAATTAC	CAAAATT
170301	AGCTTCGC	CCATTGT	GTTCACTT	CTTAGGTT	AATGTGG
170351	CAGCATG	AGTTTGT	CTCAGGAT	AAACTAA	CTGAAAC
170401	AGTGTGG	AGACTGC	CGCATTAG	GCTCATGT	CTAAACT
170451	ATGATTGT	CACAGCT	TTGTGATT	GGCTGAGA	TAAAGAC
170501	ATTTCTT	TTGATGT	CTAGGAGC	CTCCCAGC	CTAGAGAC
170551	CCACATT	TTGCCACA	GCCCCCTC	CCATCAGA	CAGCAAT
170601	AAACTCC	ATGTTTAT	CCTGTCAC	TTCAAATT	CTTTGCC
170651	AAATTTG	CTTGGAGG	CTCATCTA	GAGGTAGC	TTATTGAG
170701	AAAATCT	GACCTGA	TCAGTTG	AAGGATCT	CAAAAGC
170751	TGCGAGT	ACCTAGAT	GCATTTG	GAATAAGT	GAGAAGAT
170801	GTTTCTAT	GGTGATAC	GGACAGGC	GCCCCAGA	TGGGACAT
170851	CCTAGGAG	TTCTTTG	CCCCAGGA	AGAATTCA	AACTTGCT
170901	GGGTGTTA	CAGCAAT	TTATTGAT	GTAAGTCC	TTGTGGTG
170951	GGGCTAAC	ATAAGCAG	CACCCAG	TGGCAAGG	TGGGCTTT
171001	GCAACTGT	TTATACT	TTATGCC	TTTCATT	ATGCAAA
171051	AAGGGTGA	TAACACAA	TGATTCT	AAAGGTA	TTCTGGG
171101	CTGCCATG	AACGGGTG	AACTTTGA	TCATTGCC	GACATTGT
171151	AACTGCCA	GTCTGTGT	CAGTGTCT	TGCCAATG	CATTGAGC
171201	AGCTAGAG	CGCTTTGT	GCCATCTG	GGCTTTGG	AGTTTCTT
171251	CTTTGCC	CTTGGACT	ATCCTGT	GTTTCAG	GTTTTTCA
171301	AGAAAACA	TCCTGTGT	CTCCTAC	ATTCCTCC	CAGAGATT
171351	AAACTCTC	TTAATCTA	AGGGCTGC	ATGGGCAC	GTCTATCT
171401	TGTAAGTG	TTCTGCTG	TTTATAAA	TAGGCTCT	CTAGCATG
171451	AGGAGTAA	ATCTCTGG	ACCTGATC	AGGAGCC	CAGCAGGA

FIGURE 3WW

171501 TTTTCATTTT CTGGGTCAGA AGATAAGATG AGTTGGAAGC CTTGTGCCAG  
171551 CATCATCTTT ATGTTGACTT TAGAAGATAC AAACCTTTAGT AGGAGGTTAA  
171601 ACAAGAAAAT TACAATTATA AGGAAGAGAA AACTTAATGC TCCTATGCCC  
171651 ACCCAGAGCA TCACATTATT TATCTGTGTG TTTGTGAAAT AATAGCTTTA  
171701 AGTCTTCTAG AGGTTTGTA GGTATGGTGT CTTCCTCTTA TGCCCTGCAGC  
171751 GACTTGCAAG AAACAGGTTT AATCCTGGAC AGCTGTATCC AGCTAGTGAT  
171801 TCTCTAATGT TTGACAGCAG TGGAGGTCCT TAACAATACC TGATAGGGGT  
171851 CCTTCCATTT TGGGTTGTAA TTGATCATCA GGGGATCTTT CTTTTTAAGT  
171901 TCTTAGTAAG ACTAAGTCTG GTTAAACAGA GGAACATTTT TTTTCTTTGT  
171951 GGGAAACGGC AACACTTTAT TTTTATAATT TTGAAAGGCC TTTTGAACCT  
172001 GGCCTAAATT CCAAGAGCCG GGGTGGCATA GTGAAGTCTG TCCAACCCCC  
172051 TATTTCCCAT CATGGCTTGA ATTAGTTTTT TAGGTTTCTG TAGGATTTCC  
172101 TTTGGCCGGG GAACGTGTAA GTCAAAAGAC TTATAGCCAA TTAAACATTT  
172151 TAGGCCAGAG AGGAATGGAG GTGGCTTAAA ACATTTTAAG CAATATAGGA  
172201 GTCAAATATT AAAAGCCAAA AATAAGATTA TATATCAAGA AAAACCAAGA  
172251 GCATCAATC AAGCTATACT GGGGGAAGAG TGTTCCTGTA GATCTCTAAG  
172301 GCAAAACACT CTAGTATCAG GCCATAACAG CAGTCAGAAC CAGAGGAGAA  
172351 ACAAGTCACA GGAGCTGACA AAAAAAGCTAA AGGAAAGAGT TACACAAATC  
172401 TGAGAAGCTT TCAAAAGAAA TAAATCACAG AATTGAAAAA GCAAAAATTC  
172451 TGGTAAGTTA GCAAAATTAAT ACCTTAAGAA AAGCTGGCTC TAACACCTAG  
172501 ACCATTTTCT AGAAAGTCTA CCACGAACAG TTTTCTTCA GTCACAGCCA  
172551 GCTTAATCAC ACACAAAACCT CCCCTCACAA ATTCCTTTTC ACAAAACCCA  
172601 TTATCACCCA CACAGACCAT CCATGACATG TCTGGACCTT GTGACCTGTC  
172651 CTACACCATC TCCCTCTCAA ACAACCAAGT ACTTTACTCT AGGACAAGAA  
172701 TCCACCATGC AAGGTCCCTC ATACAAAATC ACTTTCTTTA TATCCCTCCC  
172751 CACAAAAAAA AAAAAAATAT ATATATATAT ATATATATAT ATATGTGTGT  
172801 GTGTGTGTAT ATATATATAT ATCTTTTATC CACACTTTCC TCACATCCCT  
172851 CTTTTTATTC ATTGATTCCC TCTTATTTTG AACCATGGCC TAAATGTGCT  
172901 GTATATATTC TGTAGTTATG GTGGGGAAG TGCCTTCAGT ATTTAGTGAT  
172951 AATTATAAAA AAGTTTAATA TTTAATTCAT TTCTCTTCA GGTAGAATC  
173001 CCTGTGGAAC ATGAATTTTT TTTAACTATA CTTTGTGTAC TACTCAGATG  
173051 ATATATACTG TATCAAAAGT GTATGTCCTT GTCAAGTTCT CTAAAGTTTG  
173101 TGAAATACAA GAGAATATGC AGTAAATTT TAAGTCTGTT TCCTTTCCAG  
173151 ATACTTTTTT TCTGAAGAAC TACTGTGGAA CATTACTTAT ATTGTTTAAT  
173201 AGTACTATAA AGTTGTTTCC ACACCTTGAT GATTAGCACG TAATGTTCAA  
173251 ACTGTGCCAT GAATGTGCTG GTAGAAACAA AACAGTTTTA AGGACAATTA  
173301 AAACAACAAC ATCCTGTTAT GAAGTAAAGA CACAGTTTTC ACCATCTTTA  
173351 TTGTCTGGAA GAACTGTAG TAGGAATAAA AGAGGCGACG AAGAGTTAAA  
173401 GTACATTTTA GTTTTTTAGG CTAAACCTGA TTAACAAAAA AAGATCATTG  
173451 TAGGGTCAAA GAAATTGATA TATATAGTGT AATTTTGGCT ACATTAAATC  
173501 CAGGCATTTG GCCTTTTAAA TTAGCTAGCA TATTTTACAA TCTTGTGGC  
173551 TCTTACCCCA CAACCTCTAT GTTATGATGA TTTTAGGTTA GTATGTTAAA  
173601 ACAAGGAGAA TTCTGGACT GTCACAGGAG TGAAATTGAT ATCATTATGT  
173651 TACCCATGTG TTGTGCATAT TTAGTGTCTC TTTTGTGACG TATTTAGTT  
173701 TCATGTCTTC TGGGAGACT AAAGCCAAAG TTTCTTGGGG ATTCTGGTGT  
173751 TTTAGCAAAG ACAGTGAGAC ACATAGCTCA AGAAGTGGT TATTTTACTC  
173801 CTGTCTATGT CACATTTACA TGTGAGACTC ATTTGCTGTG ATGTAGCACA  
173851 CTAGGCTGGT GAAATAATTG CTTGTGATGT CCCTAAATCC CCGAGGCTTT  
173901 TTTCTACCTC CTGCTTAGAT AGTGAAGAGA AGTTGAAGTT GCGTCCCTTA  
173951 GTGTTCAATTT TGGGTAAGAG TGATAGGATG CCGTAGGACA GATGAAGATT  
174001 AATGAGATTG TGTGATATCA AGTAGGCTCA TTGTCTTTAG ATTGATTGCT  
174051 GATGGTCTGG ATTTGCTTAG CATCAGGAGA GTTTAGAAAC AAACAACATA  
174101 TTTATTAATG ATGCCCAAAT AATAGTTAAA TGCCCAAAT TTTGGAATTT  
174151 ATGTTGTTC TTTGTTAAAC CTGCTGTGTG GCTTCTTTAG AAGTGTCCAG  
174201 TCCATGACAT TTTATACATT TGTCTTGAAT CTTAAGGAAA ACATGATCAT  
174251 GTCTTCTTTC TCGGGTGATA AGCATGCCTC AAAATAGTTT TAATTCTGTG  
174301 AATATCTTTG AATTACGTTT ATTTGGGTAC TTTTAGTACG GATACCTACT  
174351 ATATAACAAG CTCTAATAA GAACTATTAA ATTATAAGCA TTATCCCTAG  
174401 CGTATAAACC TAGTTTCTT GTAGTAGGAA ATTTGAAAGGA CTTCAAAAAT  
174451 TTTACTTTAA GCCATCTATG GAAAAGATTG CCCAATTGAG AAAAATTGTG  
174501 AAAGATATGT AGAAGTCTTA AATAATTTTG GTTTCAGGAT TATTTCTAT  
174551 TGTGTGTGTA GACTCATGGA GGTAGTAAAT TGGCATTAA TTTCTTACA  
174601 GTTTTTCTGG AAGAGGAAAT ATGCTTAATG AGCTAAATAA GACATAACAT  
174651 TTTGTTTTCT TACATTGTTG CAAATGAAG TTGGGTTTTG TTGTTTTGTT  
174701 GTTTTGAGAT GCAGGTCTGG CTGTGTTGCC AGGCTGAAGT GCAGTGTCTA  
174751 TTCACAGATC ATTAAGTTGT GCAGCCTTAA ACCTTTGGAC TCAAGCAATC  
174801 TCCTGCCTCA GCCTCCCAAG TAGCTAAGAT TATAGGTGTG CACCACAGCA  
174851 TCCAGCTTAA AATTAGTTT TCTAGAAAGT TTTATGACAT GGGGAAAAGT  
174901 TAATTAACAA TATTTAGGAA TGTCCACAAA TAAAAAGCTA AATATACGTA  
174951 TCTTTGATA TTCAAATGAC TAGTATTCCA AAAATACCT CAGAAGAAAG

FIGURE 3XX



175001	GCTACAAATG	TTTCTTCATT	CTCCATTTTT	CCTAGTTATA	ACTATTGCTC
175051	TTCTAATATT	ACTCTTCTTA	GCTAAGTCAG	AACTAAAAAA	AAAAAAGCTG
175101	CAAGGACTAA	TTGACATTAA	TAGTTCAAAT	GAATCATAAT	TCTTTACTTT
175151	CCCCAAAGTA	TTTAAGGAAT	GGATGCCTAT	TAATCTTTCA	CATTGTTTAT
175201	CAAAATGATG	TGAATAGTCT	TTGGTGAGCC	ATATTAAGAT	TAAAGCTGGA
175251	AAGCCTCCTG	TACGGTGTGT	TTCCAATTTT	AGCTTTGCCA	TCTTTACACA
175301	AGACTCTCAT	AAGTGTTTTT	GTTATTGTGT	CTGGATTCTT	CTTTGTGTTG
175351	TTTTTAAAC	TCCAGGTGTT	TTAACTTCTA	TGACAGTTAT	TATTCTTATC
175401	TTCTATGSCA	GCCCCCTCCA	AGTTTTGGCT	TTGGGGATAG	AGAAATTGGGA
175451	GAGATCAGAG	AAGAGAGACT	GGTGAGAGGT	TGTATGCATA	TGTGGGTCTT
175501	ACTTCATTTT	GATGTTTCATA	AGATAAAGAC	GCTTTATCTC	AAGGGTTGGC
175551	AGACCATGGC	CTTTAGGCCA	AACGTGACCC	ACCAACTGGT	TTTGCAATC
175601	CCATTGTCTA	AGAATAGTGT	TTACATATTT	AAATGATTAG	GAAAATACTT
175651	TAAAGTGGT	TTTTTGTGAC	ATATGAAAT	TATATGAAAT	TCAGCTTTCA
175701	GTCCTCATAA	ATAAAGCTTT	ATTAGAACAC	ATCCACACTA	ATTTGATTAT
175751	GTTTTGTCTG	TTACTCTTTT	TGCACTACTG	TAGTAGAGTA	GTTACAGTAC
175801	AGACTTATGG	CCTATAAAGC	CTAAATTATA	TACTCTAGAC	CTTTGCAGAA
175851	AAAGTTTCCT	GACTCTTGAT	TTGTCCCTGT	AAGTTTTTAG	AAGATTAGTA
175901	GCCTTTAATG	TCGTGTGTTT	ATATATGAAC	CTCAGGTTTT	TGTTTCTTTT
175951	TAAAAAAGAT	TATTTTAATT	GACATAAAAA	TTGTATCTGT	TTATAGAGTA
176001	CAACATGTTG	TTTTGATAAT	TGTGTATTCA	TTGTGGAATG	GCTAGATCAA
176051	GCTATTTAAT	ATGTGCATTA	CTTCACATAC	TTCTTATTTT	TTTGTGATGA
176101	GGACACTTAA	AAACCACTCT	CTTAGTAATT	TTTAAGTATA	CAATATATTG
176151	TTAACGATAG	TCACCTTACA	GTACAATAGA	CCTCTTGAAC	TTATTTCTCC
176201	TGTTTAACTG	AAGGTTTGTA	TCCTTTGACC	AATTTCTTCC	CAACTCCCTT
176251	AGACCTCCAG	GCCCTGATAA	CCACCATTCT	ACTTTCTGCT	TTTGTGAGTT
176301	CGACTTTTTA	AGACTCCACA	TATAAGCAAG	ATCATGCACT	ATTTGCCTTT
176351	CTTTGTCTGG	CTTATTTTAC	TTAGCATAAT	GTCCTCCAGG	TTGATCCATA
176401	TTGTTCACAA	TGACAGGATT	TCCTTTTAAT	AAAGGTTGAA	TAGGATTACC
176451	TTCTGTATAC	ATACCACATT	TTCTTTATCC	GCTTATTCCT	CGATGCATAC
176501	TTAGGTTGAT	TCCATGACTT	GGATATTGTG	AATAATGCTG	CAGTGAACAT
176551	GGAGTGAGAG	TGTCCTTG	ACATACTGAT	TTCAATTCCT	TTGGATATAT
176601	ACTCAATAGT	GGAATTGCTG	GATCATAAGA	TAGTTTTATT	TTAAATTTTT
176651	TAGGAACCTT	CACACTATTT	TCTCTAATAT	CTGAAGTAAT	TTATGTTCTT
176701	ACCAACAGTG	TACAAGGGGT	CTCTTTCTC	CACATCCTCA	CCAACATTTA
176751	TCITTCATGT	TTTTGACAAT	AGCTATTCTA	ACAGGTATGA	AATGGTATCT
176801	CATTGTGGTT	TTCATTTGCA	TTTCTCTGAT	GATTAGTGAT	GTTGAGCACT
176851	TAAAAAATAT	ACCTGTTGGC	TATTTGTATG	TCTTCTGAGA	AATGTCATTT
176901	CAGGTCTTTT	GCCCATTTTT	TAATCAGGTC	ATTTGTTGCT	GTTGAGTTCC
176951	TTATAAATTT	TGGTATTTTA	GATTTTAACA	CCTTATCAGG	TTTGGTTTAC
177001	AAACATATTC	TCATATTTTA	TAGGTTGTCT	CTTCACTATG	TTGAATGTTT
177051	CCTTTGCTGT	GCAGAGGCTT	TTTAGCTTCA	TGTAATCCCA	TTAGTCTATT
177101	TTTTCTTTTG	TTGTCTGTGC	TTTTGAGGTC	ATGTTCAAAA	AATTATTGTC
177151	CAGGCCAGTG	TCATGGAACA	TTTTCCCTAT	AACTTCTTTC	AGTAGTTTTT
177201	CAGTTTTAGC	TCITTAATCG	TCITTAATTC	ATTTTGAGTT	GAATGAGCCA
177251	CAGAGTTTTT	TTTTTTAAAG	ATTGTTTAAA	ATGTTTAAAC	CATACGTTTT
177301	CTGAAGATAC	ATTATAAGTC	GTATTTGAGT	AAAAAATATA	ATACTGAAC
177351	TAAATAATAG	TAGGGAGGCT	GAATTAACCT	ATTTCAAGCA	TACACCATCC
177401	CCTCTTGAAA	GCTCTCTTAA	TCITTAATTT	TTTAAATAC	ATTTTCTTCC
177451	ACTAAATACT	TATTTTTTCC	AACTGACTCC	CTAAAACTCA	TAAATCTACA
177501	ATTGTTATTA	CATGAGTAAT	GTAATATTTT	ATTCATGCCA	CCTGAATCTT
177551	AAAGTTCCAT	TGGTTATTAG	CTTTTTGTAG	TTATGAGTTG	TATGCCCTTT
177601	TTAGTATTTA	GCAACATTGG	GATTTTCAGG	CTTAGATTTC	TAAATTTTGA
177651	AAGATTCTGT	GTTTAGATAT	ATTTGTTTAG	TAAATAATAT	TTGATGTTGT
177701	CAACGTGAAT	TGAAGTATGT	TTAATATTAG	AGAAAGTAAT	ACCATAAATA
177751	AATACATGTT	GCTGTCAATA	CCCAAGGTCT	AAAAGAAATT	GGTTTTTTCA
177801	AGACTGGAGA	GGACATAGAA	GGCTCCATGG	TCTAGATGAC	CCATCTGATA
177851	CACTGACACC	TGTTGTAAAA	TCCCAACCCA	TCATTTCTTC	ATCCTTTGCT
177901	TATTCACCCA	CACCTGATGG	GAACATTTAA	TTCAACGAAAT	AGACCATTTT
177951	ATTTTGTGTT	CAGACTATTA	GGAAGTTCTT	TAATCTGATG	AACAAGCAGC
178001	TGTTTGTCTC	CCTAAACCCT	CTATACCTCT	ACCTGATTTT	ATTCCAAAGT
178051	CTGTAAAGAG	CAGTTTTTAA	TCCTTCTTCT	ATATGGTGTT	CCTTTATTTT
178101	TTAAAACTGT	TAGTTATCTT	GTCTTTACAC	TTTATCTCAC	TAACCACTCT
178151	TTTGTTTTTC	AGGCTTGACA	TTTTGGATTA	TTTCATATGC	CATTTCTTTT
178201	CGGTCTAAAG	CATTCTCATC	TTTTTCTTGT	GAACATTTTG	TCCTTTTTGC
178251	TCTGAAGTTG	TAACATCCAC	CAACAAATAT	ATATTGATTG	GTTGTGTTCT
178301	ATCAGTACAC	AACTTAGTGA	GACTCCTGCT	GCCTCTACCC	TGAATACCTT
178351	GCTTCTCCTA	ATGCATTCCA	GGATTTTGTG	AGCTTTGTGT	TCAGCTGCAC
178401	ATTGAGATTG	CTATTGAATA	AAGTCATCAG	GAGCAACAAC	AAAGGTGAAA
178451	AGCCCAGGTC	TTCTTCAAAA	GTCTGCTAAA	TAATAGTTTT	CACGCCCTGG

FIGURE 3YY



178501 GCTTGTGCAG TTAATTTGAT TTAAGTTTCA GCAACTGAGG CACAATATAT  
178551 ACCAGATATA GAAGTTATCC TCCAAAATTA GCTCCTCTAA GTTTCCTCTA  
178601 CTTTTCACAT GATTCCGAGA TATTCCTTTC TTAAAGTCCA AGTGATTTCC  
178651 CAATTATTTC CATGCGTATG GCTACAAAGG CTTTAGGCCA TAGGAATAGA  
178701 GGAATTTATT CTACTAAAT TCATCTTATT AGATTTGATT AATCTTCCCA  
178751 ACTTGTCAAC TGTGGGATCT TGTTCCTGTC ATTCTCTATG TATTCTTTTA  
178801 TTCATTGATA GCAAAGGCAC TATATATCTT AAATACCAAG AAGAATTTAT  
178851 ATAGCTTTCT TTTTGAAAAA TTGTTTAAAG TATCTAGTTC AAGATCCCCA  
178901 ATCTAGGTGA ACTTCATGGA ACATTTAATT GACATGGAGA TAATTAGGGG  
178951 ATGTTCTGAA GAGTTACCAA AGAGAACTCC TAAAGAGAAA CTAGATGGTT  
179001 GAGATTATTT ATGGAGGAAG AACAGATGAA AGTAAAATTC TGCTATTAAG  
179051 AATACTATCT GGGTAAAGAA ATGCTTTCTG CTTTCTTTGG TGGAAATAGA  
179101 TAAGAGTGAG CAGACTTATA TTCATTCAAT GAAATTCAGA TAAATTCATA  
179151 ACCAAAGTTT TATTATATAT ATACTGATAA GGTGAAGAGT TCAACACTAA  
179201 TCTAGTTTGA ACTCCATAGA TATTTAAAC CAGCTATTTT AATTTCTTTT  
179251 AGCTTTAAGA AGCTGCTGAA ATATGTACTT AATTTTCTGA ATACTTTGCT  
179301 CTTTATAGTT GCGTTTCAT GAATTTGTGA TATTAGACTT ATTGTATGAG  
179351 GAGTTTGTGA TTTTCTTCT TTGAACTTT TGCTTATAGT GCTTTGGGCA  
179401 CAGACCTTCC CAAACCTTAG TATTTCTGGA TGAATTTTTT GAGAGTGCAC  
179451 AACATTGAA AGGAGCTTTT GCATAATGCC AGCAATGTAG CTGAGGAAAT  
179501 GGGTCTGGAG GAAAATGAGA TTTGACACCT GTAACAGAGG ATAAATATGA  
179551 TAGGGGCCAG AGTGCTTAT ACAGAGTGTG ATAGGAAAGC TCAAACTAA  
179601 CAGAAACAAG CAATGGAAGA GTAAAGGCAG ACAGATGGTT GCAGAGATCT  
179651 TAGTTTCTGA TGCTAGCTGT GTTATTAACA GACTGTGTAT TATTTGAAAT  
179701 AATTTATCCT CACTGAGCAT CTGTTTCTGT ACCTGTGAAA AATGTACTAG  
179751 ATAATCTTTG ATATATCATT CAAGCTCTAC AATTATCTTC TTTTGTGACA  
179801 CAGAGACAGA CAAGAATAGA GATTATCAAT GTTATATAAA AGGATGTTAC  
179851 TTACCAAACA AGTTTCTGAG GTTTTGTGTT TTTGTTTCT GTTTTGTTC  
179901 TTTTTAGTGA CCACCTTCCC AGACTTTCTT GTTACTGTAA CGTTTATTTT  
179951 TTCAAACAGA TCATAAAGCA AGCAGATATT ATCCAGGTGT GCAAAAGTGA  
180001 TTAACCATGT GATTTTCAGA AAAAAAAAAA AAAAAAGAA AAAGCAATCA  
180051 ATCAGCCTTT AAGGCTGTTG TTGTGTAATA AAAACCTGC TTGACAGTTG  
180101 AAGTACACCT TAACTTTTTC ATTTAAATTT TATTACTCTT TGAAAAAGGA  
180151 GAACCTGTTG GAGCATATAT TTTCTTTTTC CACAGATGTC TGATTAGCCT  
180201 GCAATATTTT GGTCTATTT AATATACTTT TAACTATTTT TTAATGAATA  
180251 TGAATGTAAA AATAATGTTG AGTTAGAATA GAAATATCTA ACTGTATGAT  
180301 TAAAGTTGAA TCACCTATAA ATTTGAAAAA GCTTCTGTG TTCTATTGTT  
180351 AATGCTCCTA GAATCTCATG TTTGAGAAGC AATGTTCACT GTAGCCAAAA  
180401 CCTAAATCTG GGGCTATATG TTGAATGTTT TAAAGTCACT AGTAGAAGGG  
180451 CAATTTGGTG GCTAATTTTA AAGTACATAA AGAGTATTAA CAATAATGAA  
180501 GTGTCTATTT GTTCTGCGCA TTCTGTGTGT GTGTGTGTGT GTGTGTGTGT  
180551 GTGTGTGTGT GTGTGTGTGT TCAAAAAAGT ATCTGAAGGG GCCTGTAATA  
180601 GAAAAACCTAG TTCTTTATG ATATACACAA TCTAGCTTGA AATTTTGATG  
180651 CATTAAATTC ATAAAAATG AAGAGTTTAA GCTTTGCAAC ACTTAATTGA  
180701 CACATGCGTC AGAATAAGTT TGGAAAAAAA TGAACCTTCA TACATTTTGA  
180751 CTTCTCTGTT TTCTATTTGA TAACTTTGGT ATTGCAGTTA CTCTTTTGTG  
180801 ACACAAGATG GTGATGTTCA CCTGAAATGT TTCCTGAGTA CAGGCTCTAC  
180851 TCGCTTTAGA GGCTCCCCCT TATTTATCCA AAGAGCAGCT TAAAGAAATG  
180901 AATGAAACTG GCTTTGCTTT AAGAGATAAT AGTTGAAGAA AAGCAAGAGA  
180951 GTGTGTCTCT TTTTATAACT GATTTAACAA ATAATGATTC AAATTTAAGT  
181001 GTGGGTTTGT GTGAGTTGAG GACTGGGGAG CGGAGAGCAC TGGGAAAAAG  
181051 GAAAGTTGAA CAGTGGAGAA TTAGCAGTCA TTAGGTATGC AGTATGCATT  
181101 AAGTCTATGC TATGTGTTTT ACATATGATG TCTAGTTAAT TTTAGTCAAA  
181151 TATGAGCACT TTACATGTAT TTTACACAAC ACTAGTGCAT TCCTTGTTTA  
181201 ATTGTGCAAG TTTAGAAGTA CGGTGTGTGT TTGTTCTTTC TTTAAAAAAT  
181251 TATGACGTAT CATCAGCCAG TGTAGTAGCT TTATTCATAA TTTAAGTGAT  
181301 ACTGTTTCAT TTTTAAAAAT ACACAAGTTT CTTACATATA GTTAAATATA  
181351 TATTTAACAT AGTATCCGAC AATCTCAGTC CTAGGTATTT ACCCAAGAAA  
181401 AATGAATAAA TTGTCCAGCA AAGACCTGTT TGTAATGTTT ATAGCAACTT  
181451 TATTTATAAC ACCTAAACAA CCCAAATGTC TACCTACGTG AATGAATAAA  
181501 TAAGTTGCAA CATGTCCATA TGGTGAAATA CTACTCAGTC ATGAAAAGGA  
181551 ACAAATTTATT GATATATGCA AAGATGGATA AATTTCAAAA GCATTATGCT  
181601 AAGTAAAAAT AGTCAGATAT AAAAGACTAT ACACTATACT GACATTGTGA  
181651 GGATTGCAGG GACAGAAATC AGTTCCGGGA TCTGAGGGAG GAAATTTTAC  
181701 CACAGAGCAG CAATGGGAAA CTTTTTGGA TGTGTAGAT ATTCTATATC  
181751 TTGGCTGTAG TGGTGATTAC AGGACTGCAT ATACAGGGAT ACCTCGTTAT  
181801 ATTGTGGTTT ATTGCACTTT GCAAGTAGTG TATTTTATAT AAATTGAGTA  
181851 TTTGTGGTAA CCCTGCAAGT CCATTGGTGC CATTTTCCA ACAGCATATT  
181901 CTCACCTCAC ATTTTGGTGA TTTTGTGAAT ATTTCAATCT TCCTCATTAT  
181951 TATTATTATG TTATCTTGAT CTGAGATCAG TGATATTTAA CATTATTATT

FIGURE 3ZZ

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182001 GTAATTGTTT TAGGACACCA TAAACCACAC CCATGTAAGA CAGCAAACCT  
182051 AATAAATAAA CGTTTTGTGT TCTGGTTGCT CCAACAGCCA GCCATTTTTTC  
182101 TGTCTCTTTT CCTCTCTTTG GGCTCCCTA CTCCCTGAGA CACAACAGTA  
182151 CTGAAATTAT GCCAAAGAAT AACCTACAA TGATTTCCAG ATGTTTCAGAT  
182201 TAAAGGTAGA GTCTCACATC TGTACATTA ATCAAATGCT AGAAATGATT  
182251 AAGTTTCATG AGAATGGCAT GTCAAAAGCT GAGAGAGGCC AAAAGCTAGG  
182301 CCTCTTTTAC CAAATGTTTA GCCAAGTTGT AAATGCTAAG GAAAAGTTCT  
182351 TGAAGGAAAT TAAAAGTGCT ACTTCAGTGA ACACATGAAT GATAAGAAAG  
182401 CAAAACAGCC TTATTACTGA TATGGAGAAA GTTTTAGTGA TCTGGATAGA  
182451 AGATCAAACC AACTACAGCA TTCTCTTAAG CCAAAGCTA ATCCAGAGCA  
182501 AAGCCCTAAT GCTCTTCAAT TCTGTGAAGG CGGAGAAAGG TCAGGAAGCT  
182551 GCAGAAGAAA AGTTGGCAGC TAGCAGAACT TGGGTCTATTA AGTTTAAAGGA  
182601 AAGAAGCTAT CTGCATAACA TAAAAATGTA AAGTGAAGCA GCAAGTGCTG  
182651 ATGTAGAAGC CGTAGCCAGT TATACAGAAA ATCTAGCTAA GATAATTAAT  
182701 GAAGGTGGTT AACTAAACAA CAGATTTTAA ATGTAGCAAA AACAGCCTTA  
182751 TATTAGAAGA AGATTGGTAAT CTAGGACTTT CATAGCTAGA GAAGAGAAAT  
182801 TAATGCCTGG CTTACGCTT CAAAGGATAG GGTGACTCTG TTGTTAGGGG  
182851 CTAATGCAGC TGGTGACTAC GTGGAAGCCA GTGCTCATTT ACCATTCTGA  
182901 AAATCCTAGG GTTCTGAACA GTTATGTTAA GTCTACTCTG CCTGTGCTCG  
182951 ATCAATGGAA AAACAAAGCC TGGTTGACAG CACATCTGTT TACGGCACAG  
183001 TTTTCTCAAT ATTTGAAGCT CACTGTGAT ACCTATTGCT GAGGAAAAAA  
183051 AAAGATTCTT TTTGAGATGT TACTGTTTAT TGACAATGCA CATGGTTACT  
183101 CAAGGCTCTG ATGGAAATGC ACAAGGAGAA TTAATGTTTT TGTGTCTGCT  
183151 AAAACAGTAT CTATTCTGCA GCCTATGGAT GAAGGAGTAA TACTGACTTT  
183201 CAAGTCTTAT GATATAAGAA ATACGTTTCT TAAGGCTATT GCTGCTGTAA  
183251 TAGTAGATAT GGGCAAAGTA AACCTCCTTG AAAGGAGTCA CCATTCTAGA  
183301 TGCCATGAAG ATCATTCATG ATTTATGGGA GGAGGTGAAA ATACGTCAAC  
183351 TTTAACAGGA GTCTAGAAGA AGTTGATTCC AGCCCTCAGG GATAATTTTG  
183401 AGGGCTTCAA GACATCAGTG GAGGAAGTAA CTACAGATAA GGTAGATACA  
183451 GCAAAAAGC TAGAATTAGA AGTGGAGTGT GAAGTTGGGA CTGAATTGCT  
183501 GCAATCTCAT GAACAAATTA GAATGGATGA GGAGTTATTT GTTATGGCTG  
183551 AGCAATAAAA GTGATTTCTT GAGATGGAAT CTACTGGTGA AGATGCTGTG  
183601 AATATTGTTG AAATGGTAAC TGAGGATTTA GTATATCGTG TAAGTTTAGT  
183651 TGTAAAAACA GCAGGGTTTG AGAGGATTGA CTCCATCTTT AAAAGAAGTT  
183701 CTACTGTGGT TTACCCTATC AAATAGCATT ACATGCTACA AAGATATCTT  
183751 TCATGAAAGG AAGAGTCAGT TGATGTGGCA TACTTTATTG TTGTCTTTTT  
183801 TTTTAGAAAT TGCCACAGCC ACCCCAGCCT CGACCACTA CCACCCTGAT  
183851 CAGTTAGCTG TCATCAACAT CAAGGCAAGA CTTTCCACCA GCAAAAAGAT  
183901 TATAACTTGC TGAAGGCTTA GATAATCATT TGCATTTTTA GCAATAAAGG  
183951 ATTTTAAAT TAAGGTATAT ATATTTTTC CCCATACATA TTGGTATTGC  
184001 ATACTTAGTA GACTATCATA TACTGTAAAC ATAGCTTTTA TATATATTGG  
184051 TAAATTAGAA ATTCTTGTC CTTGCTTTAT TGTGATATTA GCTTTATTGC  
184101 AATATTAGT TTATTGTAGT GGTCTGGAAC TGAACCTGCA GTATCTTGA  
184151 GGTATGCCTG TATTGTGTCAG AACCTTCTA GCTGTAAAAG TAAAGAGATT  
184201 GAATTTTACA ATATGTGGGG TATACCCAAA CCACCCTAAA AAAAATTGTT  
184251 TAATTGCGAA CACAAAGGAA AATGTCAGCT TTATACTTCA GCAACAGTTT  
184301 CTTTTCACCT GGAGGTAAGG CCTCCTGCTT CTCGGCTCTT TTACCAACCT  
184351 TTGACTATCT TTACAACCC ATTTACACAG ACCTGCATTG TTATTGCTC  
184401 AGTGGGCTCA GAACTACCTC AGCAAAGAAG GGGACTTGA GTGTGCTTC  
184451 ACCAGCTGGA AACCTCCATG GCCAGTGGCT CCTTCTGCT GAGTACTGCT  
184501 CGCACCCACT GAGCTTGTTT TGCCCACTCA GCCCAGCAGG CTGCACTCTG  
184551 CTCGTGCTAC TGGCCTTAAT CCCACACCTG CCAAGGGCGA GCGAGGCGTG  
184601 GAGCGGTGAG GGTGTGTGCG GCAAGTGAGC CCAGGTTCTT GCCACTATGC  
184651 ACAGTCAGGC ACACAAGCTG CTGCATGGGG TGGGCAGCTC CAGGCACTGA  
184701 TAACAGGTGC TGGCTCCATG CAAGGCTGTG GCTGGACCAG ATGTACTGCA  
184751 CACATCTTCC ACTCTGTGCA CCCGTGACTG GACGAGGGGA ACACAGTGGT  
184801 GCCCAGAAGC TTGGAGAAGC CAGGAACCCAG AGCCCCAAG AGGGTGTAC  
184851 AGCCCTGCCT CAGGGAGCCC CTAGGTCTGG GCTCCCAGA GGGCTGCAAC  
184901 TCTTCTCCTT CTCATCACCC TCAATGTGGC AAGTCAGGT TGGGGGTGTT  
184951 TTTCAGCTTT CTTTGTGTTA CTGCTCTTTC AGTCCCTCCG TTTGGTGGGT  
185001 CCTGAGTTCT TGTCCCGTGT CCAGGACCAG TGAGGTATGT GGACAACCTG  
185051 AGGGTGAGCA AGGTGGAAAG GACTTTAATT GAACAACAGA ACAGCTCTCA  
185101 GGAGACCCAA CATAGGTAGC TCCTTTCTGC AGCTAGTAGT CCTGAAGTCT  
185151 CTCCAAGTCT GGCTGAGTCC AGGGGATTTT ATGGGCTCAG AAGGGACAGA  
185201 GTGCATGCTG ATTGGTCCAT GGGTGGCCAT GGGCAGGCC AGTGAAAGCA  
185251 CCCTAAGTTC TCACTCTGGG CCGAGGTCTC CACATGGAAC TGGCAGCCCA  
185301 GCCCCAGGC TTACGGCTGT CCATGTCTTG AAGGTGGGT TTCACCAGGG  
185351 ACCCATCCCT TTGCACCCAG GAGCTGTCT GCCTTCTGTC ACCAGGAATG  
185401 TGCCATCCAT GGGCCCCAGG CTGTTTGTGC CAAGGAGTGC CTGAAGCCCT  
185451 ATGGCAAAAC ACCCTCAGCC CTCCTCAGCC TCCCTCCCAT GCTCACCAGT

FIGURE 3AAA

185501 GCCCAAAGTC CAGAGGGGTT CAAGGTGGCT GGGGGCTGGC ATCTCAGTGT  
185551 CTCCCTGAGC ACAGGCACAC CCAGTTGAGT TGTGACAGCA CCCAGGCTTG  
185601 GCCACAACCT TGCTCTGCCC AGAGCCTGCG CCACAATCGG AGTGGCCAGG  
185651 GAGCAGGAGC AGTCACTTCT GAGCCTGCGG GGGCAGGAGG GCTTCCCAGG  
185701 CCCCCAAGAA CACAAGGATG CCTGGGTGCA GAGTCACGGC TGGACAACCTG  
185751 CAGTGAGCCC CGCCCTCCCA ACTCAGTAGG GGCCAGGGCT CCGCCCGTT  
185801 CGCAGCCTTG ACGGCTTGGC AGAGCTTGCA ACTCTAGCCG CACCTACCCA  
185851 GTACAGCGGG CGTCCTCACA GCCGCGCTCC AGACGGGCGG CTGCTGCCAT  
185901 CATTACTCCC AAGTTTCGGG TCAGAAATAA GTAGAATTTT AGTGCTGGAG  
185951 AGATTCTTAG AGAATTTGAT TTCTTAATAA AAATTTGGCT AACTAGATAT  
186001 TTTACATGTA AATCTTTTAG AGAATTTATT CAGCAACAAA AATCAGTTAT  
186051 GTGTATATTG ACAGTTTCTA ATCTAATTTT CATAAATATA ACTAAAATTA  
186101 TGAAAAATGTA CTTAAAAAAA AAAGCTAGAT TATACTCCTG TCTCCTAGAA  
186151 GGGACAGTGC AGGTAAACCA GACCAGTGCC TTGTATCAAT AATTATGTTT  
186201 CATACCAAGT AATAATGTTT ACCTTTTGTG TATGCCAGTA CAATTTATGG  
186251 CCTAAAGTTT AAGATGTTGT TCTGTTTACA TCAAGATATT TGATGACAGA  
186301 CTTAGTCAGA GGTATGTTTT GTTATGAAAA AGACAATGAT AAGCCAGTTG  
186351 TAAACAGAGT GCCTTTTGGA AATCTTGATT CCGGAACTTT TTTTTTTGTA  
186401 TTAGAGTACA AAAAGAATA TTTGTCATAG GATTTTATAA AAGTATAGTA  
186451 TATTCTATCT AAGTAGAAAG TTGAAGAAAA TAGAATGCTA ATGTTGGAGA  
186501 AGGTGAGCAA AATTATATTT TTATGAATGT TTAGGATATT TTGGGAATTT  
186551 CTAAGAGTTC AGCCTCTTTA ATTCTATAGT TTGGGGCTTA ACGCATTTTT  
186601 TTTTAAATAT GTGTGTTTTT TTAGAGGCTA GTAGAGGCCT GACATTTTGA  
186651 GTTTAAACAA TTTATAAGGT TTATTTCTAA ATTCTGTATC AGACTTAATG  
186701 TCTTTGAATT GTGATTTTAA TAATTTGATG TCCTTTTGTG ACTGCAATTA  
186751 TAAACCAGAA TTCAGTCTTT GATGATTGCA TTATATTACT AAGTGATTTG  
186801 GGTAAAGACA GAGGGGAAAA AGAGAAAGAG GGAAGATGGA GGAGGGTAGA  
186851 GGGAGGTTGA AGTGGTATAT GTGTGTCGGT TGTGTGATTT ATGTTTTATC  
186901 TTTGCTTGT AGACAATTAG AATTGAAGTT AAACACTAGG AAATAGATGA  
186951 TAAGTTTATC TCTATACTCC CAGGAAAATT TAACATTAGA ATTAAGGCAT  
187001 TTAGCTAAAC TAAGCCAAGA TTGGAAAAC ACTGTGCTCT ATGCCTGTGT  
187051 TTAGAAATAA AGTTTTATTG GAACACAGCC ACATTCATTT TTTTCTCTT  
187101 GTGAGTGCTT TCACACTGCA ATGGGAGAGT TGAATAGTGC TATATAGACG  
187151 GTATGGCTGA CAAGCTGAAA ATGTGTACCA TCTGGCCCTT TATTACTAAT  
187201 TATAATATGG CTTATAGAAA GGTATTAGTA ATTGTTAGAA CTAAGAAATA  
187251 CTCATATGAT AGATCTCTCT TATCTGAAGC AATAATAATA TTGAGCCTCA  
187301 TAGGAAAAA TTATATCAAT CATCTGACAC TGTAGGTGCT CCAACCCATT  
187351 TTCTCACTCT GATTCTCCAT ACCCTCTTTT ATGCTACTCA GCTGTTTTTT  
187401 TCTGAGTGCT TATTAGTGTA GTGTAGTGAA TATTATTACC ACATAGTTTA  
187451 CTTATACACA GTATTTATTA TTGTCTGTCT CCCATTGCTC TAATGCAAGG  
187501 GAAGCATTTT TGCTATTTT GAGCAAGGAT TTTTGTGCTA TTTACTGGTA  
187551 TATTCAGGTA CTGGGAACAC ATAGTAGCAG TTAGTATGAA ATAAACCTGC  
187601 CTTCTTATTA ACTATATTAA TCAATTTAGA AAGCATCAGC TTTTCACTTG  
187651 CTGGCTATAT TTTGCTAATT CAAAATGCAA ATAATTTGCT GAGCTAAATT  
187701 GTATATCTTT TAATTTGTTT TCTCTGTCT TCATTGAGAA AGTTAGTATT  
187751 TTCTGTTTTT AACTTCTCAC TTTAGCTACA TGTAGTTTTT TCTTGGGGGT  
187801 GATATGTGTT TAGTAGAAGG TAGTTCAGTA ATATATTTAC TGAATAGCAA  
187851 AACGAACTCT AAGATTAAAG CTCATGTTAA CTACTCTGAT GGCCTTGAGG  
187901 AAGTAATGCT GAGAGTTTAA TCACCATTAA GTAATTAAGA ATAATTTCTC  
187951 ATAAAGTTTC TCTTCTTCC AGTTATATTC ATGACTGTGT TTTGGTGATA  
188001 GTTGATTGCC CTGCTTACAT AGTTGCAAAA TTGGTAAGGA GAACAGTATT  
188051 CTGCAGCCAA GTTCCATGA GTTGATATTT CACATTCACA TTTGTGACCT  
188101 AAACCTGTAT TCTGGCAGAC AGTGAGAAAA GCCAAATGTT CTCGTAAGCA  
188151 GCAAGGATTT TCTTCATGGA AAACAAAGAA GTAAAAATGT AATCCAAGCA  
188201 AAACATCAT GTATATACTG AATTTTATAG GTATATCTAC AGAAAAATTA  
188251 TATTTGCTTT TAGCATTTT ATTACAAGTT TATTTTGTTA GGTATTATAT  
188301 TTGAAGTAAA AAATAAAATA CAAAATTGAA TACATAAAGG GAAATCAGAA  
188351 AAACCCAGAA ATATTACTCT AAGATAATAA CAATTATTAC CACTTTTATT  
188401 TGAGCACATG CACTATACCA GGCACAGCAC ACCGTGCTTT ATGTATATAA  
188451 TCTGTAACCT TCCTGACAA CCGTCAAAAGT AGTACCTCTG TTTACATTTT  
188501 GAAGATGAGA AATTACTGCG TCAAAGAGAT TAAATAGCTT GCGATGATT  
188551 AGGAACAGT AGTAATGAA GGCAGTATTG TAAGGCAGGA CTTTCTGTCT  
188601 CCCCAGATAC CTTATTCTTT ATCCCGTAGC ATGTCATTTT TCTCCAGTAT  
188651 TGTCATGATG TGTCATCAGA TGACTATACT TTTTATCCAT ACTTTATTTA  
188701 AAAATTTTAT GTGTAGAAA ACTTATACTC TAGACATTTA AAATTTAAAT  
188751 TTTTCAATCA TAGTATGCTT CTGAATAACC TGAGAAGAA GTTACACAAA  
188801 AGGAGATGGC TTGCTGATTC CGTGGAGTAA TAAATGCCTA CCTGTTTTCA  
188851 TTTTGAAGTT GAAGCCATTG CTTCTAATTT TAAGCCAACC TGTATTTTTT  
188901 TTTTCAATTTA CCTTTCACAT CTTTCAATAA TGTATTTGGC CTTATATAGC  
188951 TGTGAAAATT GATTGTACAA ATTGGTTTGA GCATATGAGA CCTATGAACA

FIGURE 3BBB

189001 CTTGTATTCT GACTTAGCAT AGAGTTTTAT ATTTTCTGAG TAGCATAGAC  
189051 CCATATATTT TTGGACACCC CTCGTATTTT ACATTTAATA GAATGATGAA  
189101 CATGATTCAT TAAGCCTTTC TTTGATGAAA GACAGAAACC ACAGAGCAAT  
189151 GAAGATATTG GCATTCTCTG TAAAGTTTGT ATATTAAAGT CTTATGGTAG  
189201 CCTATGAAAA AGAGCTTGTG TGGAAAAATT GAGAGATTCA AGTTTTGTAT  
189251 TATACTTAAG TTTTGTCACT TCATCAAATG CCTCCCTTTC TATGTCTTAT  
189301 CATGAATTTA TTTTITCCCT TTTAATAGTA GATCAAATAT AGATAGCCAG  
189351 GAAAGAGTAA AAGGTCAGTT ATGGTAATAT AGTGAAGATG TTTCAATTCAT  
189401 ACTTTAATAT TATACAAGTA TTAGTTTTGT ATTATACTTC TTCTTCTTCT  
189451 TCTTCTTCTT ATTCTTATTA TTATTATTAT TTTGAGACAG AGACTCACCC  
189501 TGTGCCCCAG GATGGGGTGC AATGGCATGA TCTCTGCTCA TTGCAACTTC  
189551 TGCCCTTCTGG GTTCAAGTCA TTCTTCTGCC TCAGCCTTCT GAGTAGCTGG  
189601 GATTACAGGC ATGTGCCAAT TTTTGTATTT TTGTGAAGAC AGGGTTTCAC  
189651 CATGTTGGCC AGGCTGGTCT TGAACCTCTG ACCTCAGGTG ATCCGCTGCTC  
189701 CTCAGCTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC CGCAGCCAGC  
189751 TATACCTTACT ATTTTGAAG AACCTTATGA ACACATTTAA TAATAAAATT  
189801 GCTTTAAATT ATTATCTATT GAGTGAATGA ATGGCTGGCT GACTGAATGA  
189851 ATGCATACAT TCAGAACTCT GGACTCCAAA ATCTTTTAGA GTCTCCCTTT  
189901 GAGTGGAAAC TACTCTTCTT TGATTTTGA AATGTTAAAT TAAAAGATAG  
189951 CTTAATATTG GTGTGTCTCC TTTCTATAAT TGTCAAAAAG AAGTTATAGT  
190001 GTCCTCATAA AGACAAATAA GGAGATAAAG AAAAACAAAA ATAATTGAGT  
190051 TAAATTGTTA ATTTTGTGTT GTTTTATGTG ATCCTCAGAT TCTTGGGATT  
190101 AAAATTCAAG CAGGGATGCA GTCTTCTTTT GAGTTACATG TTAGAGTCTG  
190151 TGACATTAGC ATTCTCTATC TCAAGCAGAA ATGCTACCAA AATGGTTCTT  
190201 GATTTAAGGA TTGTGTTTCT TTTATAGTCA GTATTTTAA CATATCACAT  
190251 TTGAGTCTTT TAAAACTTAA CTGCTTCTT CTTTCACATA TCAGTTTCTC  
190301 TTCCATCAGA GAGAATAGTG ATATGGAATC ATTTTGTCTG AATGGTTGGC  
190351 TAAAAGTACA TACCGTAGAA GGTAGAACT TAAATACAGG ATAATGAATT  
190401 TTTTTATAT CTGATTCCCA TTAGCATTGA CATTTTTTTT TTCTGTTTCC  
190451 AGACCATAAA AGCTTCTTCC AAAAGTATCC ACAGGCACAG AAGCTCTGTT  
190501 TAGATTTTTT CTATGTGCTT TCTTTTCTTG ATATTTTGAT TTTTTTCCAA  
190551 AATGAGTTTG CTGTTTACTT TTGATGAAGT AAATATCTAT ATAAAACTG  
190601 AAGATTTTTA TTTCTTGGAT TTGGAGGGCA ATTTGAACAT TAGATTTTAA  
190651 AGGCTTATAC TTAAGATGAC CATTAGTAGT TAAATCTGGT TTATAACTAA  
190701 TCTAGTGTA TTTAATTAAT AGAGGTTAGT GTGGAGTCAT TCATATATTT  
190751 ATATTTCTG TTTCATATGT TTATAAATAT TTGATGAGTA TCATTGGCTT  
190801 TTTTCTCCA ATGTGTTTGG ATTCAAGGAA TTAAGGGTCT GTATAAATAC  
190851 TTATTTTCT GTGTGTGCAT TTTCTTGTG TTATTTTCAT TGGTTTTGAG  
190901 TTTGACTTAA TATACACATG TGCATTTAAA AAGATGATCT TTCCAAAAGC  
190951 TTTGCTTGGG ATCTTTGCTA GGAGGATGAG TTAATGGATG GAGAGGGCTG  
191001 CTTGCTTTAC TGTTTATTTT CCCAGACAAA TCCATGGAGA CAGGCTGCTA  
191051 ATAGGATAGG AGAAAAACAA CAAAAACAAA TACAGCTTTT TGGCCTGGAA  
191101 CTGAATTTGA TTATCTGTAC TGTCACTTAG AGCCTTTGCT CACTTACCCA  
191151 GACGATCTCT ACAGGGATTA AAGCTTCTC CTGCACTTGC GATAACTTTC  
191201 AGTATGCTGC AGCGTCATAT CCAGTTAATA TTAACAAAAA AAATCTGGCT  
191251 GTAAATAGTT ACAAATCCT CACCAATCA ACCTTTAGCA AGAGTGATTG  
191301 TGCTGATTAA TCAAACAAGA TTGTCACTAA TTAAGGAAT ACAGATGACT  
191351 TGGATTTTAT TTTACGTTTT CATATGTAAA TTCTTGCAGC CCTTCCCCAA  
191401 GGTGCGGCT GATTTTGTGA TGGGATCTTT GGGCTGTTGC TTTTCTGACC  
191451 AGCAACCTCT GTGGCCAGTG GCGCCTTTGC CTGAGTTCTT GTCCCTGCATC  
191501 TAGGAAGAAT GAGGTACATA GACAAGTGA GGGTGAGCAA GACAAAGAGG  
191551 AGCTTTATTG AGTTAGAAAA GCTCAGAAGA GGCCTGCAGT GAGTAGCTCC  
191601 TTTCTGTAGG CAGGTCATCT CGTTGAGTGT TGAGCTCTCA GCAGAGAGGA  
191651 GGCCTGGAGT GGGTGGCTCC TCTCTGCAGG CAGGTTGTCC CGACGAATGT  
191701 TCAGCTCTTA GCAGAGAGGG TAGCTCCTCT CTGCTGCTGG TCATCCTGTT  
191751 GTCTGCAGCT CTCAGCAGAG AGGAGGCCCT GAAGAGGGTA GACTCCTCTC  
191801 TGATGTTGAT CATCTGACC TCAGCAGCTC TCAGCAGAGA GGGTAGCTCC  
191851 TCTCTGCAGC CGGTCCCTCC ACTGGCTCTG CTCTGCTCTG GCTGAGTCCA  
191901 GGGCTTTTAT GAGCCTCAGA GGGGAGGAAG TGCATGCCGA TTGGTCCATG  
191951 GGCCTGCGGT AAAGGCACCA CAAGTCCCCA CTCTGCTCCG CAGGGCTGGC  
192001 AGCCTGGCCC CCAGCCTTCA GGCCTGCCCT GTTCTGAAGA TGAGGCCTCA  
192051 CCAGGGACCT GCCCTGCCCC TTCCACCCA GGAACCTGTC TGATCTCTGC  
192101 TGCTGCCCAT CACACCCAGG CTGCTCACAC CCGTGCCAAG GAGCACCCAC  
192151 AGGCCAGCCC AGAGCCTCAT TCAGCTCCAT CTTGGCCTCC CTCTCCTACT  
192201 TGGCATCCAT AGTCCAGAAG GGCCAAGGTG GCAGGAGGCT GGTGTGTGAG  
192251 TGCTGCCTGG AGCAGCACAC ACCTGGCTGG GCCACAACAA CGCTGGGACC  
192301 AGGAAGAGGC CAGGCAATGG GAGCAGATAC CCTGAGTCT GCTGATGATG  
192351 GGGGACCCAC CTGGGTAATC GAGAGCACCA GGAGACCCAG GCCACAGCC  
192401 ACAACCCAGG CAGCTGCAGC TGTGCCCTGG GAGCTCTCAC CCTACCAACT  
192451 CATAAGGGGC AGAGCTCCCG CCAGTCCCTG GCTCTGCAGA GTGTGCAGCA

FIGURE 3CCC

192501 TTGACTGTGC TGCCCTCTCT GCATCTCCCA CAGTGGTGGC AGGTGAGGTG  
192551 CAGGTGGCAT AGTGGCCCTG GCCAACCCAG CACAAACAAA CCGGATGCTC  
192601 CCAGGGCTAG TCCTGTGAGT CCCAGTGGCA GCACCTTTGG CCAGGTGCTT  
192651 GTGGGCTTTC AAGACATGGT GGGGCGCGAG GTTGAGGCTG CAATGGCGGC  
192701 TCCGAACCTA GTAGCAGGTC CTGCTACCTG TGCGAGGGTG GAGGTGGCAC  
192751 AGTCCACCTT GAGGACACGG GACACAGGAG ACTGTTGCCA CTGCTGCTCT  
192801 CACAGTTGCT TCTGTATCC TGTCTGCCCT CTTGCAGCCT GGAGCAGGGC  
192851 TCCAGGCCAT CGCTGGGCTG GGCTGCCGTC CAAGGCAAGG ATGACATTGC  
192901 CGCAAGTTCC CCCTGTGGAC CCGGCTCTCG GTGGCAGCCT GGGGCTCCTC  
192951 CTCGCACAGC TTGAGACCTT GCCGGGGGGC ACCTCTGGGG CGGATCGCGG  
193001 GCCCCAAACC CAGTTGTCCG GAGCGCCAGG CTGAACAGTC ACTCCGACGT  
193051 GGGGTGGATC CTGGGGTTGC AGCGTCGGTG GCCCGGGCTG AGCCTCCAGC  
193101 TGAGGTGCAG GAACTTGGAG CCGCCAGCAG GGTGGGTGCG GCGACAGAGT  
193151 CGCTTGCCAG GTCTGGGAAG CGGGCGCCAC TCCCGCTTTC CACCCACAC  
193201 CCTGAAGTA CGGCCCACT GTGGGTTTCA GCCCACCTCC CTTCACTCTG  
193251 TGCGCAACCT CAGCACCCCT GGGTCCAAC CTGCCCTTGA ACCCCTCCAT  
193301 GCCAGACCGT GCTCTTCCCC CGCCTGCAGG TAGGTGCGCC CGGCCCCACC  
193351 TGAGTGGATC CCAGGGTTGG GCTTCCAGGG CAGCAGGCCC CAGGTACCGT  
193401 TCGCCTTGGA GTCCACCTGA GGATCCACAG CCTGCACCCC CACCTGCACC  
193451 CACACCCTG CCGCCACACA GCGGTCCTCG GCTGCCAAAG TGGCAGTGAC  
193501 TACTTTGGAT GGCCCGCTGC TGCCATCAAT TTGAATGGT TATATTTTGC  
193551 CGTCTTGTG GAGAAGAAAA ACATGGATGT ATAGATATAC AGTGATGGAT  
193601 GGAAGTACAG CTTAAGAATC ATTTTGGGGA CATTTTAA AAAAAATTTT  
193651 GAGACAGAGT CTTGTCCAT CTCCCAGGCT GGAGTTCAGT GGGGCAATCG  
193701 TGCTTCACT CAGCCTTGAC CTCATGGGCT CAGGTGATCC TCCTGCCTTA  
193751 GCCACCCAAG TAGCTGGGAC TACAGGCGGG TGCCACCACT CCCAGCTAAT  
193801 ATTTAAATTT TTATAGAGAC AGGGTCTTGC TTTGTTGTGC AAGCTGGTCT  
193851 CCAACTCCCG GGCTCTCACA GTCTCTCTGG CTTGACCTCC CAAAGTGCCA  
193901 CCACACCCTG CCGATTTTGA GGAGGTTTCT CTTTTCAGAA AAGTTATAAG  
193951 TATTTTGACC CTGCATGAAA GTTTGGAATG ATGGAATCAT ATAAACAAAA  
194001 ACAACAGAAA GCCTCAAAAG ATTTTAAAA ACCAAACAAA AATTATTGGA  
194051 ACCAGCTTTT ACCTCAAGCA GTGAATGAGC TACACAGAAA GTTGATTTTT  
194101 CTTTATTAA TGATTGCTAG TAATGAGAAT TTTACACTTT ATTCTTCTCA  
194151 ACCTCCCTCC AGGTCAGTTT TGGTTGTTAC AGCTGGAGGA ATGATACTGG  
194201 CATCCAGTGG GTAGAGGTCA GGGATGTTAC CAGACATCCT ATAATGCACA  
194251 GGAACCCCT CCCTGACCCA CAATGAAACA TTGTTAGCCC AAGTAATGCT  
194301 GAGATTGAGA AACCCTGCTG TAAAGTGTGG ATTTTATCT TGATGGGAGT  
194351 TTTTCCAAAT AGCTACATTG ATGTTTACAA TGCTTTATAA ATAAAGGGAA  
194401 GTTTTGTCT GTTTGTTGA ATTAATAATA AGAGATAAAA GAGGCTTTAG  
194451 AGACAGATTT TGGGATTTAT AGATGCAATA AACACATAAA CACAGTCTTC  
194501 GAAAAATGTT CATGGAGACA ATATGGTGAT CTTGTGATAC AGGGAAATGG  
194551 AAAACATTTT ATTATAGAAG AACATGAGAA ATTTGTATTA TTTTCTACTC  
194601 TTTTCATGGC ATGAATGAA ACTTCTACTT TGTAGGTGTT GGTGTTGTAC  
194651 AGAATTATTT CTATATTTGT GAATTAAATC ATATAATAAA GTAATTGCAA  
194701 TATCCAAAAA TCAATTATCT TGGTAGAATA TTCAAGAGCC TGAAGCTCTG  
194751 GATTCACTTC CCATTGTGTA CTAAAGTTAA TTTATTTAAT GTCCAAGCCT  
194801 CAGTTAACAC ATCTGAAAAG TAAGGTAGTT TTTATAAACT TGTGAGATGG  
194851 GCATTAGTTA ATTTGTATTT GATAATTTGT ATTGACACTA AACTGTTATC  
194901 AGATGTTAAA AGAACTGTTT AGTCTTTGAT TGCTGAACTT CAGTGTAAAG  
194951 AGTAGGTATT TCTTTGTTC TTTTCATAAAG GAGCTCTTGA ACCTCCGTTT  
195001 TCAAGCATTG TCTGCTCAGT CACAATAATT TGCAAGTGAA GGATGTATAT  
195051 GTAACACAC ATGTGTAAAC ACATACACAC CTAGTCACTT GATGGTAGAG  
195101 AAGTTAAGGA TTTACAAAAT GTGTTTACAT TGCTTTCCAG AGATTGAGGT  
195151 TGAGGTTTTT GGAACCTGGC ATACTGATAG TACCCATTAT GGAACCATAA  
195201 TCATGTGGAG TTAGCATACG AGATAGAGCA TATAACCTAT AAACATATTT  
195251 AATGATACTC ATCTATTGTG CTACAACAGA AACAGACATT GGAGAGTAAA  
195301 TGTAAATGAT CTTATTCCCA CTCTTAAAAA TTTGCAGTTG ATTTTATTTT  
195351 TTAATGATT ATGTTGTCTG CCATACTACC CACAGTCCAT TAACTAAGT  
195401 AATGCATGTT GTGAAAAAAG TTCTACTTTC TGTAAAGGAG GAGAGGGAGA  
195451 AAAAAAAT GCAGTTTGA GTCAAAATC ATAGCAAGTC ACTTTACCTT  
195501 TGCTTCCATG TTTAAGAAGG TGTCTCTTTG GTGAGACAG ATGAGATCTG  
195551 TATTCTGTCA CCACCAAAG TCCTTGGGGT TATTTTITTA ATTTTITTTT  
195601 TTTAACTAAG GGACCAGCCA GGGCTACGCA ACTAATATAG AGAAAAATTC  
195651 AGACAAGAAA TTAGATCTCA GATGGAGGTG GAAACTGCAA AGTTTGATCA  
195701 TCTTTTAGAG ATTGCAGTGT ATAAAAATAA TTGTTTCACT TATAAATGGA  
195751 AGCAAAGCAA TAAACTTCAT GTTATTCTAT ATACAACCTT AATTACTGTT  
195801 TCATTTTTTA AAAGATATTT TGTAAAGATG GTATTTTGAA TTGGTAACAT  
195851 ATGTATATAA TTCAAGATC AAAACTGTAT GGAAAGATAT ACATGCTCAT  
195901 ACCTTGTTC TTCTACCACT GTACCCCAAC CTTTCCACCT TACTTTTATT  
195951 AGTCTCTGT TTCTCTTCC AATTTTTTAA CACAAACAAA AAATATGCAA

FIGURE 3DDD

196001 ATATATATGC AAATATAAAT ATATGTTTAT GTGTGTGTAT ATATAATATA  
196051 TATTATATAT AATTATATTA TATATAATAT ATATATTATA TTATATATAT  
196101 TATATATATA TATATATGTT TTCAATACCC ATTTCTCCCA GTTATATACA  
196151 ATGCAGGAAA CTATGTATAC CCTTCAGTAC TTTGCTTTTT TGATTTAGCT  
196201 CTGTTTCTTG CAGATCTTTT TCTCTCAGTA AATGGGCATT TTCCCTCATCC  
196251 TTTTGAAGGA TGCATGGATG AAGAACTACC ATAGTTATTC AACCAGTGCC  
196301 TTATTTTATG GATTCCTAGG CTATTGTCAG TCTTTTGCCA CTATTAACAG  
196351 TACTACAAAG AGTAATCTTG TCCAGGTGTC ATTTTGTACT TGTGCTGGTT  
196401 TGTGTAAAAA GTGGGATTGT TGTGTTATGG GTAAATACAT TTGTAATTTT  
196451 GTTAGATATT ATCGTATTTT CTTTTATGGT GATTCTACCA TTTTTTACTT  
196501 TCACCAGTAA TTTTGAATGT GTCGGGGTTT CCAGGTGGT ATCAGTAGTT  
196551 AGTAGTTAAT TTAAAAGGGT AAGTAAATAA TCATTTAATG TTTTATATTT  
196601 ATGTTTAATG ATTTTAACAT AAAACATAAA TATACATTGA TTTTATTGTT  
196651 CTTAGGGCAA ATAAATTTTT AAGAATAGTC TGCTCATTGG AGCTCTGTAA  
196701 TACCTCTTTT CTAAACCATA TTTTATTAAT TTTAGTGTGTT GGCATCTATC  
196751 AAGTAGAGTG ATAACTTAAG ATACTCTGAG GTACCTTGAG TATCCCCATT  
196801 CATCTACAGC TGTCTGCCA AACCAAATTA ACAGTTGAGA GTTACTCATC  
196851 TTTATTGAAT CTTTCTATT TAGGTTTTTT TTTCTAAAAA ATAATATATT  
196901 TATTTGAATC ACATAATTTT AATGTCAAGT AATTGTTAAA CTAGAATTTT  
196951 GGAATCAGTA TTTTTFCTC ATGTTTTGTT TACCGGTAAG TCACCTTGCT  
197001 TATTACAGTG TCTCAAGGTA TTAAGTGTTC AGTAAATTTT CATTGAATGG  
197051 AATAGAAGGA AAAGAGGTAG TATGGAAATA GACTCAACTG ATTCTAATTA  
197101 TGCACCCAAA ACAAGAAAGC AAAGGTTACG AGAGCAGGAG GAGGGTGCGC  
197151 ATAGCAGAGG GCCTTCTTAT CAGCCAGGAT ATTTAACCTC CCATGGCTGA  
197201 AGAGTCTAGG AAGTGACATA TTTTGCTTTC CAGTCTCTTA ACTTTCTCTT  
197251 CTTAGACATA CAAAATTTAT ATCAAATAGA GACAGTGTGG GTCCATCTTT  
197301 TTCCCTCATT TTGCTGTCAT TTTCAAACCT GTTTATTCTG GAAAATTATA  
197351 ACATGCTTGG CCAAATTTGA TTGGCTAGAT GTGCTGCAAC TTACAGAGCT  
197401 TTAGACCAGT TATAATGATG AAGGTTCAAG TTAGATAGTA ATGTGCTTTG  
197451 AGGCAATAAT TATGGGATAT TTCCTTGTAG TGACCAGTAA TTTTATGTC  
197501 TTCTGTATTA GTCCATTCTC ACATTGCTAA TAAAGACATA CCTGAGGCTG  
197551 GGTAATTTAT AAAGGAAAGA GGTTTAATTG ACTTACAGTT TAGCATGGCT  
197601 GAGCAGGCCT AAGGAAACTT AACAAATCATG GCGGAAGGCA CCTCTTCACA  
197651 GGGCTGAAGA GAGAGAATGA GTGCAAGCAG GGGTAATACC ATAACTTAT  
197701 AAAACCATCA CAGTCTCATG GAACTCACTG ACTATCATGA GAACAGCATG  
197751 GGGGAAGCTG CCCCATGAT GCAATTACTT CCATGATGTG GGAATTACGG  
197801 AGATTACAAT TCAAGATGAG ATTTGGGTGT GGACACAACC AAACCATATC  
197851 ATCTTCCAAA CAGAATTTAT CATCAACACT GACGAGCCAT TTCAGTTTTA  
197901 TCTTAATTAT TGCAAGGACT GGTCAAGAGA ACGTGTGTTG AAATTGGAAA  
197951 TTAATCATCT CGTTTGAGGA AATAATTTAT AACATTTGAG TTTCTCTGGT  
198001 GAATCATTAA CATAGTTTCC ATATTTAAAT TTCTGCCATT ATATTTTTTC  
198051 ACATTGCTG TCCTCTTTCC AAATAACTTC TCAGAGAAAC TCTTAGAAAA  
198101 AGCAGTAATA ATTAAGGGCT AAAAAAAGA GCTTCAGTGC ACTTGTGACA  
198151 TCATTTTTATC CTTTATAATT AACCATTAAA AATTAGTTAA TATTAGTTAC  
198201 CTAACATAAG TTAGTTAATA TAATATCATT ATGTGTGCTG CATCATCTAT  
198251 GTGCCCTTCT GGCAAGACTG AGTTTGGGTG AGTGAGGGTT GTTACTGCAG  
198301 TCACATTCTA GACACAGTCA TGTGCTGCGT AACCATGTTT TGGTCAACAT  
198351 CAGACTGCAT GTACAAATGT GTCCATAAG ATTATAATGG AGCTGAAAAA  
198401 TTCCTATGGC TTAGTAACAC TGTAGCCATC ATAATGTCAT AACCATATG  
198451 ATGTGGTAGC ATAGTGCATT ACTCTTGTGG CAATGCTGGT GTAAACAAAC  
198501 CTGCTGTGCT ATTAGTCATA TAAAAGTATA GCACATTCCA TTTGTATAGT  
198551 ACATCATACT TGATAATAAA CAACTGTGTT ACAGGCTTAT GTATTACCTA  
198601 TACTATACAT TTTTATCATT GTAGTGTGTA CTCTGCTTAT AAAAAAAT  
198651 TAACTGTAAA ACAGCCTCAG GCAGGTCTTA CAGGGGATAT TCCATAAAGA  
198701 AGGCCTTGTA AACGTACGAG ATGACAGCTT CATGCATATT ATTGCCCTTG  
198751 AATACCTTTC AGGGAAATAA GATGTAGAGG TGGGAAGACAG TGATATTGAT  
198801 GATCCTGACC TACGGGCCTA GGCTAATATA TGTGTTTGTG TCTTCGTTTT  
198851 TAGCAAAAAA GTTTAAAAAG TAAAAATAA AATAAAATTT AAAAAATAGGA  
198901 AAAAGCCTAT AGGATAAGGA TATAAAGAAG AAAATATTTT TGTGCAGCTG  
198951 TATAACATGT TGTTTTAACCT TAAGTGTAT TATAAGAGTC AAAAAGTTAA  
199001 AAAAAAATAA ATAAATAAAA AATTTATAAA GTAAGTTACA GATTAATTCC  
199051 TGAAGAAAAGA AAAGTTTTAA AATAAGTTTA GCATAGTCTT ATTGTACCGT  
199101 GTTTATTATA AAATCTATAG TAGTGTACAG TAATGTCCTG GGCCTTCACA  
199151 TTCACTCTTT GCTCACCCAG AGCAAAGAGT TTAATCACTG ACTCACCCAG  
199201 AGCAACTTCC AGTCCCTGCA GTACCATGTC TGGTAAGTGC CCTATACAGG  
199251 CATACCGTTT TTTAATCTCT TATACATTAT TTTTACTGTG OCTGCTCTTT  
199301 GTTTAGATAT TTTTAGACAC AAATACCATT GTGTTACAGT TGCCTACAGT  
199351 GTTGAATACA GTAAATGCT GTACAGGTTT GTAGCTAAA AGCAACAGGC  
199401 TATATCATAT GGCCTGGGTA GACTATACCA TCTAGGTTTG TGTAAGTACA  
199451 CTCTGTGATG TTTGCACAAT GACAAAATCA CTTAAGGATG CACTTCTCAG

FIGURE 3EEE



199501 AACATATCCC CATTGTTAAG TGACACATGA CTGTATTTTG TTCTGTAAC  
199551 TTCTTGGCCA AATGTACTAT TTTGAGTCAA ATTCCATAGA CCTTTTGTGTT  
199601 TCCTCTTGAA GATATAATGAA CCTTTTCCTT TTAACCTTATA AAAAGATGAG  
199651 TGTATTCAAG ATTGATTGTT CAGAAACTTT GTCTGGGCAG ATTTGACTTT  
199701 TTATTTTAAA TTAGCTTTGT CACAAGGATA TTATCACCTT ATGCTTTGAA  
199751 ACCCTGACCC AGCCCTCATT GCACTCTCCC AATTTCCCTG CTGGATTTTG  
199801 TTTGATTATT TGTTGTTTTG CTGCCTCACC GATTTACACA TATCACCTG  
199851 TAGTTTCAAT ATGTAAATTC AAAACTTACC TGTTTTGCTA TCTAGGATAA  
199901 TATTTAGATA ATCAGTTATG TTGATGAGAA AGAGATAGAT TTGTTCTGAG  
199951 ATACTTAAAT TTATTTTAACT TGTTCTCTCC CCAGATATAC AGATACTCCT  
200001 CAACCTACAA TGGAGTTCCCT TCCTGTATAA GGTATCTTAA GTTGAAAATA  
200051 TCATAAGTCA AAAATGGATT TAAAACACCT AACCTACCAA ACATCACAAT  
200101 TTAGCGTAGC TTACCTTATA TGTGCTCAAC ACTTACATTA GCCTTCAGTT  
200151 GGGCAAAATC GCCTAACATA AAACCTGTTT TATAATAAAC TATTGAATAT  
200201 ATTATGTAAT TAATTGAATA CTGTACTGAA AGTGAAAAAC AGAATGGTTG  
200251 TATGGTACT CAAAGTAAGG TTTCTTCTGA ACATGTATCA CTTTCACACT  
200301 ATCATAAAGC TGAAAACTCC AAAGTCAAAT CATTGTAAGT CAGGGACTGT  
200351 TCATTACTTT TGTTTTCTAA TGCAGTGGTA ATTAATGAAG GAAAAACCA  
200401 GAAATTGACA GTGTATTGAT AAACCTGTTT TTCTATTCTT AGGGCTATCT  
200451 TTTTGCCTTT ATACTAATCT CCTTTAATAA ATGGAATAGA AAACCTACTT  
200501 TTTTTTGGC CATGTCATCT GTTTTTTGT TTTTTTTTTT TGACAGCATA  
200551 TTAGGTTGTG GATAGTATTT GGAAATCCAC ATCTGCTCTT TATCCACATG  
200601 TGTTTATCCT ACTTGCAGTG TAGATAAAAA TGTCCTTTGT ATTTTAGATT  
200651 AAAAATTGTG TTTTCCATTA TTTTATCAAT TTTCTTTCT GAAATTTGAC  
200701 CTTTTAACTT TGATTTTTTG CAGGGAAAGC TTTTGTGAGA GGAACCTTTA  
200751 TTATTGTTTT TCAAAAAGGCA GTTGCCTCAA GAAAATCTAT TTTACTTTAG  
200801 TATGAAAGTG GAAAACTGAC ATTTAATTGC ACAAGCTGTT TAAAAATCAT  
200851 AAAATATAAC TACTGCTATA AAAATGTGTT CATATAAGAG ACTAGAGGAT  
200901 AATATTCAGA GCATAAAACA ATGGTTGGAG ATCCACAGAC AACCAACACT  
200951 GGTAGTCAAA TAGTGATTAA ATTCTTGATA AGTCTTGCTG CTTTTTTTTT  
201001 TGAAATTTTA TTTAATAATA TCATATAATG TTTTTCATTT GAAAAGGAAA  
201051 AAGATGTTAT CAAGTTCCTG CCTATTAAAC TTTAGAGAGA ACTTAGTTTG  
201101 GTTTATTGAG TTAGACATGT AGTCAGTGTA GCACTTTAAT CTTTTAACTT  
201151 TACCACCTTA ATTTATTTTAC AAATACAAGT TCTTGATGAT CTTTTATGTT  
201201 TTTCTAGGAA ATATTAGTGA TAACATCTCA TATCAATTTT TTTGTAACAT  
201251 TCAGAATGTG TAGTCATGAA GAAGAACAGG GCTTACCTCA AAATATCTGG  
201301 TATACTCTGC AATAAAAAGTA TCATCACTGG CCATCAGAGA AATGCAAAATC  
201351 AAAACCACAA TGAGATATCA TCTCACACCA GTTAGAATGG CGATCATTAA  
201401 AAAGTCAGGA AACGGCCGGG CGCGGTGGCT CACGCTGTGA ATCCCAGCAC  
201451 TTTGGGAGGC CGAGACGGGC GGATCAGGAG GTCAGGAGAT CGAGACCATC  
201501 CTGGCTAACA CGGTGAAACC CCGTCTCTAC TAAAAAATAA AATACAAAAA  
201551 TTAGCCGGGC ATGGTGGCGC GCACCTGTAG TCCCGACTAC ACGGGAGGCT  
201601 GAGGCAGGAG AATGGCGTGA ACCCGGGAGG CGGAGCTTGC AGTGAGTGA  
201651 GATCACGCCA CTGCACTCCA GCCTGGGCGA CAGAGTGAAA TCCCGTCTCA  
201701 AAAAAAAAAA AAAAAAAAAA AAAAGTCAGG GAAACAACAG GGTGCTGGAG  
201751 AGGATGTGGA GAAATAGGAA CACTTTTACA CTGTTGTTGG GACTGTAAAC  
201801 TAGTTCAACC ATTTGTGAAG ACAGTGTGGC AATTCCTCAA GGATCTAGAA  
201851 CTAGAAATGC CATTTGACCC AGCCATTCCA TTAAGTGGTA TATACCCAAA  
201901 CGATTATAAA TCATGCTGCT ATAAAGACAC ATGCACAGCT ATGTTTATTG  
201951 CAGCACTGTT CACAATAGCA AAGACTTGGA ACCAACCCAA ATGTCCATCA  
202001 GTGATAGACT GGATTAAGAA AATGTGGCAC ATATACACCA TGGAATACTA  
202051 TGCAGCCATA AAAAATGATG AGTTCATGTC CTTTGTAGGG ACATGGATAA  
202101 AACTGGAAAC CATCATTTCT AGCAAGCTAT TGCAAGGACA AAAAAACCAA  
202151 CACCTCATGT TCTAACTCAT AGGTGGGAAT TGAACAATGA GAACACTTGA  
202201 ACACAGGAAG GGGAAACACCA CATACCAGGG CCTGTTGTGG GGTGTGGGGA  
202251 GAGGGGAGGG ATAGCATTAG GAGATATACG TAATGTAAAT GACGAGTTAA  
202301 TGGTATAGCA CACCAACATG GCACATGTAT ACATGTGTAA CAAACCTGCA  
202351 CGTTGTGCAC ATGTACCCCTG GAACCTTAAAG TATTAATAAA ACAACAACAA  
202401 AAAAAACCAT GTTCTTATTG GACCACTGCA TACCTGACAT GTATTTTATT  
202451 ATTTGGTGAA TATGAACCTT AAGAGGAAAT TTCTTTATTA TGAAGTTTTT  
202501 TAAAACTGAA ATTACAGTGT CACAAAATAG TTAACCTGGG TCAGAGGCAT  
202551 TCCAAATGAT TTGCTCTGTA AGAAATTATT TTACAAAGAA AATGTAACAT  
202601 AGTATTATAC TTCTTTTGAC AGAAATTATT TCTCTGGTTT TGTTTGGCGA TTCTAAAACA  
202651 AAAATTAAGA AATTATTATT TCTCTGGTTT TGTTTGGCGA ACACCTTTAC  
202701 ATCACCAGGA AACATATTAC TTTTCCATGA GTTCTTACGA ACACCTTTAC  
202751 CTTGGGTATA TGAATAATGGC CTGCTCTTGA GTTGGATGCT TTATTCCAGA  
202801 TGTGTTTACA TAAACAAAGT ATGGAAAGTC TATACTTGTA TGTATAGGAA  
202851 ACAATGGGTC AGCTTTGAAA TTTTTTATGA AATGTACATA GATTTTCTA  
202901 GACACGTACA GAAAAATGAG AAGTCGTGTC TAGATGGAGC CATCTCTTGA  
202951 GACTGGACAT CTCCAGTAGA AATTTGACTT CTAGCTAGAA AGACAGTATC

FIGURE 3FFF



10/506549

203001 AAATTGTCT CAAATATTA TTTATCATTC TTCTTTCAGG GCTTCCAGAT  
203051 GAGCTTGGAA ACTGATTTAC AGAGATAATT AAGACCATTT GCCATGAAC  
203101 TCCTTATGTA TCCCATCAT TAACAAGACA TAGCTTGGCT CTATTATTAT  
203151 CTGCTGCTCC TTCTCTACAC TGTCAGAGAA GGACATTTTT TGCCCTAAAGT  
203201 TAATTGTTC ATCTAGTTTC TGTAAGTCAT CTCAATTTTA AAAATTTTAG  
203251 CTCCTAGTT TCTCTCACA GACCAAAATAT ATTAAGAGTG AACTTGTGAA  
203301 AGTCACCAGT GACTACTGAA CAAAATTTAA TGGTTTCCTT TCTTACTGTG  
203351 TTCAATTCCA TAAATTTTAT CCTGCTGAGT ACCTGTATCT TGAAACCCCTG  
203401 TACCCTATTA GCTTTGATGA CATGACACTT TTCCCTTCTG CTGACTCTGA  
203451 GTCTAGTACT CTTTTATTTC AGTGGAAATT AATAATCACC TTAATATGGC  
203501 AAATATTTAA ACAAAAATCT GAATCCAGTC CAGCCTCCGG TTTTGTTTTA  
203551 TAATTCAAAA TTTGAAATCT CAATTATTTT ATCTCAATTT CTTTTTCTG  
203601 CTCTATTACC ATTACTCTTC TGGTTGAGTT ATTTCTTTTA TTAGTGCCAT  
203651 TGCTCTTGA CTGTTTCTC TGCTTTCAGT CTCTTCTCC ACCATTTCTAT  
203701 ATTCATTCTG TTTATAGTA TTCTTCTTAA AGGAGTGATA TACTGTTAAG  
203751 GAACATACAG GGACTCTCTG TTTGCCCTAT CAAGTCCAGC TCTTCATTCT  
203801 GGCTTTTTCA CTTTGCAAAA GTTGCCCATTA CCCCATGCAG CATCTTACCA  
203851 TTATAGTATT TTCTGTTTTT ACTGAACATT TACCTTTTAT CTGCGCAATT  
203901 ATGCTTCTG GTAGTCATGT GATATGCAGC TACTATTATA CATTCATTAT  
203951 CATGTAAGTAT TTTTGTCTTA TTTTGTCTCC TCCTCTTTCA TCTAAAAACA  
204001 TGCTCATTAC TTTTCTTGA CTGCTGTCT TAACAGCCTT TTCCATGAAT  
204051 TTTTTATTT TGAGGTTTTG TTTAGTTTTT ACTAAATTGG CTCTACAAAT  
204101 CTTTTTCTC TAGCTTACTT GTCTTCTGTA CCACCTAGCT TAGTTCCTGA  
204151 TGTTCTCTAA TAGTTCATGT GTTCCAGGTT TTTCTGTCT TTCTAATAAC  
204201 ATGTAAGTAT CTTGAGGTCA GAGAGATTGA TACAGTTTGG CTGTGTCCTCC  
204251 ACCAAAATCT CATCTCAAAT TATAGTTCCC ATAATCCCCA CATGTCATGG  
204301 GAGAGACCTG GTGGGAGGTA ATTGAATCAT GGGGGTGCTT ACCTCCATGC  
204351 TGTTCTCATG ATAGTCAGTG AGTTCCTATG AGATATGAAG GTTTTATAAG  
204401 GGGCTTTTCC CCTTTTGTCT TCATTCTTCT CCTTCTGCC ACCATGTGAA  
204451 GAAGGATGTG TTTGCTTACT TTTCCAAAT GATTGTAAGT TTCTGAGGC  
204501 CTCCCCAGCC ATGCCAAACT ATGAGTCAAT TAACTTTTT TCCTTTATAA  
204551 ACTACCAGT AGCCTTGGGT ATGCTTTTAT TAGCAGCATG AGAAGGAACT  
204601 AATACAGAGA TCAAAATCAT TTTTGTATG CCGTCAGATA ATAGTTGTTT  
204651 CATGAATTTT CCCGTTAAT TAAAAATAAG ACTACATGGC CAAGTGCAGT  
204701 GGCCACACCC TGTAAATCCA ACATTTTGGG AGCCTGGGGC AGGAGGATCA  
204751 CTTAAGGCTA GGAGTTTGAA ACCAGCCTGG GAAACTTTGG GAGACCTTGT  
204801 CTCTACAAAA ATTGAAAAAT CAGCTGTAGC CCTGGCTACT CAGGAGGTTG  
204851 AGGCAGGAGT ATTGCTAGCT AGATCCCGA GGTGAGGCC TATGGTGATC  
204901 CGTGATCTTG CCACTGTCTT GTAGCCTGGG TGACAGGGTG AGACTCTTGT  
204951 CTCTAAAAAT AAATAAACAT AAGACACAGA AGCTAAATAT TTAATCTCT  
205001 TTAGTTTTCA CAGGAAGTCA ATAATGAAC CAGGATCTGA GTAGAAACAG  
205051 TTATTTTAAA ATCATAATAT CACAGTTTTA TCATATCAGT TTTTATAGT  
205101 GTAAAAATTT CACATCAGCA GAGGCGAGTC AAACCATAGT TCATTCAACT  
205151 ATCTTATGGG AAATTTAAAT TTTCTCTGTG TTTTCTGCT TAGGACACAA  
205201 GCTGTACTTT ATATAATCAG TTTGTAAATA CATTTCAAAG CTCTTCAGTT  
205251 GGTAAGCTGA TAGAATTGTA TTAGTGTFTA GCCACGGAAG GTAAACAGTT  
205301 TTTTTTAATA AATTAAATA AAAGGAATTA ATTTTTTAG ATCATGAAAT  
205351 GCTTTATTAT TTGGTGTTTT TGATGGATGG CCACTTTACA TAGAAATTTG  
205401 TTTTTTCTGC CTCAGAAGCA GTATTCTGT TAAATTGCTT GTTATTAATT  
205451 AGGCTATTTT TTATTCAAAA ATATTAACTT TTATGGAATA CCTTTATTTT  
205501 CCCCTATGAA CTTGAGAAAA ATGAGTTTTT ATTAGAGGCT GTAGTATAAC  
205551 ACTAACTAAA ATGTAGTTTG GAAAGTTTTA TTGAGTTTTT CTTCCTTAAC  
205601 CTTTTCTTTG GCTGGCTGCA AACAAGTAGT GATAATGTGT TTTTAGATGT  
205651 GCTTATTTTC ACCTCTTCTT CCTGGAGGTT AAGCTAGTAC TCATTAAGGA  
205701 AAAAATACAG TTTATACTAA ACAGTGTFTA ACATATACTG ATGGTATTAC  
205751 TGTATTTCTT GTTTTGTGTT CACAATGAGA AGATTCTGAA AAACGTCTCT  
205801 TGTGTAAATA CTTTACTGAC ATACCAGACA AGTATAATCT TGTCTGCTGG  
205851 TAGGCAGGAA AGAGTGATGT CCTGGAATGT TGTGAGAAG GAAATCTCTT  
205901 TGTGTTCCAC AAATGATACC CTTAAACCTT TTAAGAATAT AATTTTAAAA  
205951 TGACAGCTCT GAATTTGCTT TTCCTTCCGT TTATTAACCT TTCTGCGTT  
206001 TAAGTTTACA AATGCATTTA GTTGGGAAAA AAACCATTTG GTCTGAGAAA  
206051 GAAGTATCTC CCTGGTAGTT TGTGGGAAAT TATTGGTAGA AGTATCTCAG  
206101 GGTAACATA AAAACAGATT TAATAATTGT TGCTTTTTGT TTTCTTAGTT  
206151 TAACTTTTTT CTGATACTTG AGTCAGGCTT TTGGTAATTC TCTACAGGCT  
206201 TAAAAAATG CAGCATCTCC AACAACCATC CGAAACATCT ACCCAAGAAG  
206251 TAATTTGGGG AGATTGTTGT TAGAACACAA ATTTTTTTTA AAGTTAGAGT  
206301 TGGAGTTTTT AAATTTTATT ATTTAATGTG AGTCATTAAG ACATATGAAA  
206351 AGCTGTTGTG TAGTGTAAAC ATTGAATATT CTAGTGAATG GATTTTTATA  
206401 TACTTAATTA TTATAGCTGA GAGTTCACTT AAAATTATAC TGATGTTTCT  
206451 GTTCAGTGAC TGAAAAAAA ATGATTATGG TTAACCCCTT AAATAATTGA

FIGURE 3GGG

206501 CAAACAGAC ATCACAGACT AGACCTGTGT GTGATTTCTG GGTCAAGTGT  
206551 TCTTTTCTT CTCTTCTTT AGTACTCCCA TCATTATTAC TTACAGTGAT  
206601 TTTGTACTTC AGCTCTCACT CTAACCCCA GCAAAATGGA GAATTATCTG  
206651 TAAGAGTCTC CAAATACAAG GTTTAAATG CTGTGTAATA ATTTTCAAAC  
206701 TTTAGAAAAG TATTATATGC TTTTTCAT CTGGAAGTTC TTGCATTGTT  
206751 AATGCATGTC ATATGTGTGA TCCTTTGTGA AAGTATTTGC TTAAAAATAT  
206801 GTGGGACATT ATCCTTCATA TAGACCTGTT TTCATAAATC TGCTCTGATG  
206851 AATTCTGAAA TATGGAGGCT ACTGCATTTT CAATTAAGAA TCCTAAAGGG  
206901 AATACTTTAA GACAAAAGAG CTAAGTAATT CAAACAAGTA TTAACATAA  
206951 TGGTAGTTTC ATGGTATCAG AAATTCAGAT TACTTCTGTG CCATCCCTTA  
207001 GGCCACATGG TAAAAAGTAT CTCACTGTCA CATTAGTTGG GTTCTCATT  
207051 AGGTCAACAA GAATTAGGAG ATAAGGTAAT AGCTCATCCC TGCCGTTTAA  
207101 GAGCATAACC CATAAATTGC AGCTATCATT TACATCCCAT TGGCTAATCT  
207151 TAGCTACAAG GTAATATTCA GCTGCAAGAG AGGCTGTAAA ATAAATATAT  
207201 TCTCTATTTT GAGGGGCTGG GATTTAAAT TGGCTTTAAC TCAGGGGTTT  
207251 CATTACTAAA GAGAAAAACT AACAGTCTCT GCGATTACCT GTTAGCACC  
207301 TCAGCTGTCA TTGTCCACTC CTCTCTCTT GAAACATTCC TCTTTGTTT  
207351 ACGTGACACA GTAATACCTA ATTTTCTTCT TATTTCTTTG TCCTCCTTGA  
207401 CTCCTTTTAA TATTTATTCT GGTCTGCCTA GCCACAGAAT GTTGCAGTTT  
207451 GTCAAGGCTG GGCCAGGAC CCATCTTCTC TCATCCACAT CCATGGCTTC  
207501 AGTTGTCAGC TGTGATTGAG TGCCTAATTC AGCTCAGATC TTTGCTCTGA  
207551 CCGATTCAAC CATCTACTTA CATGTCTCAA AGGCACTTGC AGTTCAACAT  
207601 GTTTTTTAAAT TTTGTTCTAA ATTATATATA TAATTATATA ATCTTAATTT  
207651 TATGAAGTAA ATTCTATTAC CATCTTGAT CATACACGTG AGAACTGAA  
207701 ACACAGATGG TTAAGAAACT TGACCAACAT AGCTGGTAAC TGTATGTGA  
207751 GGTTTTTTGT TGTGTTTTG TTTTGTAGGT AGGCTCTTAC TCTGTTGCC  
207801 AGACTGAAGA GCAGTGGTGC AATCATAGCT CATTGCAACC TCAAACCTCT  
207851 GGGCTCAAAAC CATCCCCCAC CTCAGTCTCC CAAGTAGCAG GGAATATAGG  
207901 TGCAGGCCAC AGTGCCGAGC TAATATATAT ATTTTTTTAA TTTATGTAGA  
207951 TATGAGGTCT CTCTATGTTG CTGAGGCTGG TTTCAAACCT CTGGCCTCAA  
208001 GCAGTCTCTT CACCTCAGCT TCCCAAAGTA CTGAGATGAC AGGCGTGAGA  
208051 CACGATGCCA GGTTGAGTTC TATCAGTTT GATAAATGCA TAGAATTGGG  
208101 TAACCAACCA CACAATCACA ATGCAAAACA ATTTATTTAC TCCAAAAATT  
208151 TATTCCTTGA GTCCCACTG GTGGGATGTC TTCTTTCCAC CACTGACCCC  
208201 TGGCAACTAC TGATCTGTCC TGTAGTTTTG CCCATTCCCC AAATGTCATA  
208251 TAAATGTAAT CATGCCCATG TCATCTTTGA GTATAACCTC TTTTATTTCA  
208301 CATGTTTTCG AGATTGCTCT GTGTTACTGT ATCAGTAGTT TGTTCCTTTT  
208351 TTATTATTGG GTATTATTCC GCTATATAGA TGCACACAG TTTGTTTATA  
208401 CATAATAAAC AATAAAGGAC ATTTTAGATT GTTTCAGCT TTTGCTATGA  
208451 AGAATGTTGC AGTACACATT CACAGACTGG TTTTATGTG AACAAACTT  
208501 CTTATATCTA ATATGATTCT AGGAGTGGAT TTAAGTAATC ATAGGGTAAT  
208551 TAAGTGTATG CTTAATTTTA TATAAATGCT CCTATTACTT TCCAGATTGC  
208601 CTGAACATA TTCCACCAA CAATATATGA GCATTCCAGG TGCCCTGCAT  
208651 ACTTGCTAGT GCTTGTTATT GTCAGTGTTC TTTTCTCTT TAGTTTAAAT  
208701 CATTCTGTGA GTTATATAGT ATTATCTTAT TGTGGTTTTA ATCTGCATTG  
208751 CTCCTATTAC CAGCAATATC AGGCATCTCT TCATTTGCTT ATTTGTAATT  
208801 TGAACATTTT GTTTGGTGAA ATGTTTTCTT TGGATCAATT TTTACCCCTT  
208851 CAATGGGTTG TTTCTTTTAC GTATTCTGGA TCAAAATCCT TTATCGAGCA  
208901 TATTACAAAC CTTCTCTTAA TCTGTAGCTT GTCTTTTCTT TTTATTAACA  
208951 CTGTAGTTCA CAGAGCAAAA AATTTTAGTT TTGAAGAAGT ACAATTTCTT  
209001 TTTTAAAAAT CAACCTTTTA CTTATGTATA ATGTCTCCTA TGGGGATTTT  
209051 TAAAATTATT TTTTATTGTC GGTAAAAAAG CACATAACAT AAAAGATACC  
209101 ATCTTAACTG TTTATTTTTC TTTCTATCT TAGCAGTTTC TAAGTTTACA  
209151 GTTTAGTAGT ATTAAGTATA TTCACATTGT TGCACAGCCT CCAAAACTTT  
209201 TTCATCATGG AAAACAGAAA ATCTGTACCC ATTAACAAC TCTGCATTAC  
209251 CTCCTCCCCC CAGTCCCTTT CTACTTTGTT TCTATGAATT GACTGCTCT  
209301 GGATACCTCA TATAAGTGGA ATTGTGAGT ATGTGCTTT TGTAACTGGC  
209351 TTATTTTAAAT TTAGCATAAC GTCCTCAAGA TTATTTTATG TTATATAATG  
209401 TATCAGAAAT TCTTTTTTGA GGCTGAATAT TTTATTATAT GTATATACCA  
209451 CATCTTGTTA TCCATTTCATC TGTAGATGGA CAGTTAGGTT GTATCCACCT  
209501 CTGGCTATT ATGAATAGTG GTATTACAAA CATGGTGTGT GAATATCTAT  
209551 TTGAGATCTG CTTTCAATTT TTTGATATGT ACTCAGAAGT GAAATTGCTA  
209601 GATCATATAG TATTTCTATT TTTAATGTTT TGAATAACTG CCATACTATT  
209651 TTCCACAGTT AATAACATTT TATATTCATT CACAGTTAAT AACCATTTTA  
209701 TATTCATTCC AATAGTGGGA ACAAGTTTTT AAATTTCTGA TTCTTTCTT  
209751 TTTTCTTTTT TGATAGTATG TATCCTAATG GGTATGAGGC GACATGCATT  
209801 GTGATTGTGA TCTGTACTTC CCTAATGATT AGTGATTTTC ACTATATTTT  
209851 CATGTGCTTC TTGGCTTTT CCCCCCAGA TTTATTGAAG TATGATTGAC  
209901 AAACAAAAAT TGCATATCTT TAGAGTGTAC AACATGATGT TTATATACAC  
209951 AGACACATAT ACATTGTTAT TAACTGTAGT CACCACCATG CTCTACATTA

FIGURE 3HHH

210001	GGTCTTTAAT	ACTTATTCAT	CTTGTGGCTG	AGGGTTTGTA	TCCTTTGACT
210051	AATATCGCAC	TTTTCCCAAC	CCTTAGGTCC	CAACCATTC	ATTCTCTGTT
210101	AATAGGAGTT	CAGCTGTTTT	TTAGATTCCA	CATATAAGTG	AGATCATGTA
210151	GTAAGTGTCT	TTCTGTGTTT	GGCTTATTTT	ACTTAGCGTG	ATGTTTTTCAG
210201	AGTTTCATCCA	TGTTGTGCGA	AATGGCAAGA	TTTCCTTCTT	TTTTATGGCT
210251	GAATTATATT	TGTGTGTGTG	TGTGTGTGTA	TACATATATG	TACATTACAA
210301	ATAGCCAAGC	TATGGAAACA	ACCAGTGTTT	ATTGATAGAA	GAATGGACAA
210351	AGAAAACATG	ATGTGTGTAC	ATATATATAT	ATATATATAT	ATATATGTGC
210401	ATATATATTT	GCATGTGTAC	ACACACATCA	CATTTTCTTT	ATTCATTCTC
210451	TGTCAATGGA	CACAGGTGTG	TTCCATAGCT	TGGCTATTGT	GAATAATGCT
210501	TCAATGAACA	TGGAAGTGAA	GGCATCTCTT	CCGCATCTCT	TCCGCATAAT
210551	GATTTCAATC	CTTTTTTTTT	TTTTTTTTTG	AGACGGAGTC	TGGCTCTGTC
210601	GCCAGGCTG	AAGTGCAGTG	GTGCGATCTT	GGCTCACTGC	AAGCCCCGCC
210651	TCCTGGGTTC	ACGCCATTCT	CCTGCCCTAG	CCTCCCCGGT	AGCTGGGACT
210701	ACAGGCGCCC	ACCACCACAC	CCGGCTAATT	TTTTGTAGTT	TTAGTAGAGA
210751	CGGGGTTTCA	CCGTGTTAGC	CAGGATGGTC	TCCATCTCCT	GACCTCATGA
210801	TCCGCCCGCC	TAGGCTCTCC	AAAGTGCTGG	GATTACAGGC	GTGAGCCACT
210851	GCCGCCAGCC	GATTTCAATC	CTTGTGTGAT	ACATTGCCAA	CCTAAATAGC
210901	AGGCAGAGAG	GTTCTCCGAA	GATAATGGGT	TTGTTGAGAG	CTGCATAGAG
210951	GATTTGCAAT	TCTGGGATAT	GCAGCCTATG	GGGACCACAG	GCATATCCAA
211001	AGAGGTTTCA	GCAAGGGGAT	GCTTTTAAAG	GTAAGGAGAG	AAAGTAGTAG
211051	TTTATTTTGA	AACAATGACA	ACATTGGTTA	CGGGGCTTAT	CACAGGAGCT
211101	GACACCAAGT	CTTTAGTGGG	AACGTGTGCA	GGCAAGTGTT	CTTGTGCATC
211151	TGGCTAGCTG	TCCTTGTGAC	TCCTGTAACA	ATCTGCAGTT	TAGAAGGTTG
211201	TGGTTACAGG	CATATGTGCC	TAAGAGTCCT	TCATACAGTG	TCTGTTATAG
211251	TTCTATCAT	AGGCGTGTGC	GTGTGTGTGT	GTGTGTGTGT	GTGGCCTCCC
211301	TTTGTAAGCT	CCTAGCTTTA	TTTATATATA	TTTTTTGTTT	GAGTTTGACA
211351	CAGGTGACTT	CATTTTGATT	CTGATACCTT	TTACAATACC	CAGTAGTGGG
211401	ATTGCTGAAT	CATATGGTCA	TTCTGTTTTT	ACTTTTTTGG	GTAACCTAGA
211451	CATTGTTTTT	TTAAATGGCT	ATACTAATTT	ACAATATCAC	TTTATATTGT
211501	TTTCTTAAAT	GGCTTTACTA	ATTTACAGTG	TCACTAACGG	TGGATAAGGA
211551	TTCCCTAGTT	TTACATCTCT	TGCCAAAAC	TACTGTCTTT	CATCTTTCTG
211601	ATGGCCAGTC	TGACAGATGT	GAGGTGACAT	CTCATTGTGG	TTTTAATTGG
211651	CATTCTCAT	TATTCTCAT	ATTGAGCACT	TGTATTGTGT	GGACTTTTGT
211701	GTATCTTTTG	AGAAATGTGT	ATTGAAGTTC	TTTCCAGTTT	TTAATAGGGT
211751	TATGTGTTCT	CTTGATATTG	AGTAGTTTGA	GTTCTTGTGA	TATTTTAGAT
211801	ATTAGCTCTT	TATTAGATGT	ATGATTTGCA	TATGTTTCTC	CCAATCTGGG
211851	GTTTTTCTCT	TCACTCTATT	GTTTCTTTGG	TGTGCAGAAG	CTTTTTAGTT
211901	TAAATGTTCT	CCATTGGTTT	ATTTTGTGCT	TCATTGCCTG	TGCTTTTGAG
211951	GTTATATCCA	AGAAATCTCT	GTCTGTGGAG	CTTTTCTCT	TAGGTTTTCT
212001	TCTAGTAGTT	TTATTTTCAG	GTCTTCTGCT	TAAGTCTTCA	ATTTATTTTG
212051	ACTTGATTCA	TGTATAAGGG	GTGAGAAAAG	GGTCCATTTT	TATTCTATAT
212101	GTGGATATTC	AGTTTGTCTG	TCATCACTTA	TTGTAGAGAC	TGTCCTTTCC
212151	CCATTGTATG	TTCTTGGCAT	CATCATCAAA	AATCAATTGA	CTATAGACAT
212201	GTGGATTTAT	TTCTGCTCTC	TCTGTCTTAT	TCCATTGCTT	GATGTGTCTG
212251	TTTTGATGCT	AGGTATGGCT	TTGCAGTATA	TTTTATAATC	TGTTTGTGTG
212301	ATGCTTCCAG	CTTTGTCTCT	TTTGGTCAAG	ATTATTTTGA	CTATTCTGGG
212351	CCTTTGTGAT	TCCATATGAA	TTTTAGGATT	TTTTTTTTTT	TTTTTTTGCA
212401	AGGATCCTAA	GAACTACTA	TGAACAATTA	TATGTCAACA	AATCATATAA
212451	CCTAGAAAAA	TGGATAGAAA	CATTTAACAT	AACAAAACCT	AATCAAGAGA
212501	TTGGAAATCT	GAACAGACCA	ATAATTAGTA	AGGAGATTGA	CTCAGTAAGT
212551	AGAAGTCTGT	CATCAGTGGA	AAGCCAGAAA	CCACATGACT	TTATGGCTGA
212601	ATTCTACCC	ACGTTTAAAG	AAGGGCTAAT	ACTAATCCTC	CTCAAACCTC
212651	TCTGAAAAAT	TGAAGAGGAG	GGAATACCTC	CAGACTCATT	TTATGAGGCC
212701	AGAATCACCC	TCTTACCAAA	GCCAGACAAA	GACATTACAA	AACAAAACCTA
212751	TAGGCCAGTA	TTCTGTATGA	TCATTGATGT	AAAAATTCTC	AACAAAATAC
212801	TAGCAAAACCA	TAGTCAATAG	TACATTATAA	GGATCATTTA	CCAGTAGATC
212851	AAGTGGGATT	TATTCCTGGA	ATGTAGATTG	CTTCAACATA	AGCAAATCAA
212901	TAAATGTGAC	TTACCATATT	AACAGAATTGA	AGGACAAAAA	CTACATGATC
212951	ATTTCATATG	ATGCAGAAAA	AGCCTTTAAC	AACATTACAG	ATCCTGTCTC
213001	GATTAAAAAT	CTCTTTAACA	AATTAGGTAC	AGAAGGAATG	TTCTCCACAA
213051	CAGTAGAGGC	CATATATGGC	AAGTCTGCAG	CTAACAGCAT	ACTCAATACT
213101	GAAGAGCTAA	AGGCTTTTTT	TCTAATATCA	TGAACAATAC	AAGATGCTTA
213151	CCTATTCTCA	CCATTTCTTT	TGAACATAGT	TCTGGAAGTC	CTAGCCAGAG
213201	CAATTAGACA	AGAGAAAGAA	ATAAAAGGCA	TCCTAATAGG	AAAGGATGAA
213251	GTGAAATTAT	CTTTGTTTGC	TGACTACATG	ATCTTATACA	GTTACACCTC
213301	TGTATCTGTG	GGTTCTGCAT	CTTTGGATTG	AACCAACCAC	AGATTGAAAA
213351	TACTCAGAAA	AAAATGGATA	GTTATGCCTG	CTGAATATCT	ACAGACTTTT
213401	TTCTTGTCTC	TCTTCATCAA	ACAATATAGT	ATAACAACGT	TTACATAGCA
213451	TTTACATGTA	TTAGGTATTT	TAAGTAATCT	AGCGATCATT	TAAAGTATAT

FIGURE 3III

213501 GGGATAGGCA TAGGTTATAT GCAAATACTA TGCCATTTTA TATAAAGGAC  
213551 TTGAGCATCC ATGGAGTTTA GTATCCTCCA GGTTCGCTGG AACTAATCCC  
213601 TCATAGATAC TGAGGGACAG CTATATATAG AAAATCCTAA GGACTCCACC  
213651 CAAAACCTGCT AGAATTCATA AACCCATAAA AGTTGCAGGG TACAAAATCA  
213701 ACCTACACAA ACCAGTAGCA TTTTGTTTTA CACTAACAAAC AAACGTCTCG  
213751 AAAAAAATTA AGAAAAACAAT CTCATTTTACA ATAGTATGAA AAAATAAGTA  
213801 AAACAATTAG TAAACAAGGA AGTAAAAGAT TTGTAATTTT CAAATATTTG  
213851 GAAATTTTTC AGTAACTCAG TGTCTTTAAC TAATAATTTA ATCATTCTAG  
213901 TAAGAAAAACA TGCTTTGTAT GATTTTAGTC TTTACATTTA TTAATTTATG  
213951 TAAATTAATA TGTGGGTTTT ATGATCACCC ACGACATTGT CCTAACTTGT  
214001 CGACTGTTCT GTGTGCTCTT TTAAAGAAGG TAGTCTGTTT GCCCGGTGCG  
214051 GTGGCTTACG CCTATAATCC CAGCACTTTG GGAGGCTGAG GCAGGCAGAT  
214101 CACCTGAGGT CGGGAGTTTT AGACCAGCCG AACCAACATG GAGAAACCCG  
214151 GTCTCTACTA AAAATACAAA ATTAGGCCAG GTGCGGTGCG TCACCCCTAT  
214201 AATCCAGCA CTTTGGGAGG COTAGACGGG CGGATCACGA GGTCAAGGAG  
214251 TCGAGACCAT CCTGGCTAAC ATGGTAAAAC CCGTCTCTA CTAAAAAAA  
214301 AAATACAAA AAATTAGCTG GGGTGGTGGC AGGCGCTGT AGTCCAGCT  
214351 ACCTGGGAGG CTGAGGCAGG AGAATGGCGT GAACACGAGA GGTAGAGCTT  
214401 GCAGTGAGCC GAGATCGCAC CACTGCACTC CAGCCTGGC AACAAAAGCA  
214451 AAATTCGCT TCAAAAAAA AAAATATATA TTAGCTGGC GTGGTGGCAC  
214501 ATTCTGTAA TCCTGCTAC TTGGGAGACT GAGGCAGAAG AATCGCTTGA  
214551 ACCCAGGAGG CAGAGGTTGC AGTGAGCCGA GATCATGCCA TTACACTCCA  
214601 GCCTGGGCAA CAAAAGTGAA ACTCCATCTC AAAAAAATAA AAAAAGAAAA  
214651 AAAGAGAATG TAGTCTGTTG TTGGGTGCAG TGTTTTATAG AGGTCAATTA  
214701 GTCAGTGGTC CCCAACCTTT TTGGCACCAG GGACCACTTT TGTGAAAGAC  
214751 AATTTTCCA CAGGTGTGGG GCGGGGGTTG GTTTCGGGAT GAAACTATTT  
214801 CACTTCAGAT CAGGCATTAG ATTCTCATAA GGAGCACACA ACGTAGATAC  
214851 CTTGCACGCA CAATTCACAG TAGGGTTTAC ACTTCTATGA GTGCGCATCT  
214901 AACGGTGGCG CTGATCAGGC AGTAATGCTT GCTTGCTTGT CTGCTGCTCA  
214951 CCTTCTGCTG TGCAGACCAG TTCTTAATAG GCTGCAATCT GGTACTGATC  
215001 CACAACCCGG GGGTTGATGA CCCCTGATTT AGGTCACTTT GGTGTATTAT  
215051 GCTGCTATTC ATGTATTTGA TATTCTTGAA GAATTTCTAT TTGGTCTATT  
215101 CTTTGTGTTT CTGAGAGAGA AATGATGAAG TCTCCAAGTG TAATTGTGGA  
215151 TTCTCTATT TTCTCTTATT TCTCTTTCA CTTTGCTTCA TCTGTGTTGA  
215201 AGCTCTATTC TTAGATGCAT TCACATTTAT CAATTGTTGC ACCCTCTACA  
215251 TCTCTTGGTA ATTTTGTAT TCTGACATCT AACTTCTCA GATTTTAAAC  
215301 CAATCAATCC ACTTTCTTT TGCTGGTGAT CACGTGGTCT CATTTTACAT  
215351 TCTTTTAAAC TGTATGTATT ATTTTATTAC AGTTGACTTT CATATAGATA  
215401 GCATTCGAAT TGATCTTGT TTGCTGTACA GTCTTAATCA GGTTCCTTAA  
215451 AGTTGTGTTT ATACCATTTA GTATAAATTT CCATATGTTT GGGTTTATGT  
215501 CTGTGACTTT ATTGTTTGCT GTTTGCTTCC GTTTTTCATT CTTCGGTTTT  
215551 CCTTTTCTG CCTTCTTTTG AATTATTGGA ATATTTTITA TTACTTTAAT  
215601 TCATTACTTG GCATTTTAAA ATTCTTTGT TTTGTGTTT GCTCTAGCAA  
215651 TTACAATATT CACATCTAAG TTTTCACAGT CTACTTAGAG TTAATATTTT  
215701 ATCACTTGAA GTTCTATAC ATTAGTATAG AACCTTACA ATGATCTAGG  
215751 TCAAGAAGAT AGGGAAAATG GATATTTGAT GACAGCTGGG TGTCTGCCAC  
215801 AAAGGACAAT ATTAAGTTGC CTTTATAGCC ACACCTCTCT TAATCTTTTC  
215851 TGTAATGCTT CTTAATTTAT TTGTTTATT CTATATTAAT  
215901 TTCAGCCTAT AGTGTGCAAT TATATGAAA ATAAGTTAT GTCCATGCCT  
215951 CCTTCTTGG GATATTTCTT AAATTCAGTA TGAGATTGTT GATATAGATA  
216001 AGAAAACCTGA CTTCGAAAAG GATTTTCATTG CCCAGGTAA CACAGCTAAG  
216051 TGGGAGAGCT GCAATTTGTA CTCTGAGTCT GGTTTTGGG TCTGCACATT  
216101 TGACCACAAT GCTACTGCCT GTATTTTACT TAAGATAATA GTTATGTTTA  
216151 TGACAAACCT CTAAGTATGT ATGACTTCTA AATTTACACA TTCTTTGAGT  
216201 GTTCTAATTT CATTGTCATA AAAGCTTACT ATTTTCTCAT TTTTAAAGACA  
216251 TATTTTCATC TTCTTAAGAT AGCTCTTAAA TTTATTCAG AAACCTTTAA  
216301 CATTTTGTAT ATTGTTGAAC TAGTTTGGGA ATCAAAACAA TTTGTGATT  
216351 CCACATAATT GCAGTTAAAT TTTTTCAGTG TAATTTTAAA AATACCTTAT  
216401 GGGAAAATAC TACTGCAAGT TGTGTAACAC TTTAATTATC TATTTTGTG  
216451 AATCATAACA GCGTACACTT AACATTTGGA AAAAAATAA ATATATTCAA  
216501 AATATACTTT TTTCTTTT TAAGGTAATA TTTGTTATTT ATAGGTCTTC  
216551 AAGCCCAAGG GCCTACAACC GACAGACTGG GAACCACTT TTATACTATT  
216601 AGTGAATAAT AATAACAAAA ATAAGATTTA CATTTTCTCT TAGGATACCA  
216651 GAGTTGAATA AATTCAAATT TAGAAACACA TATACATGTA TATGTATAAA  
216701 ATATATGTAT ATCAAAAGAAC TAGAATTTT AATCAGACTC AAACCTTACC  
216751 AGTGAAATGG GAATACTCTT TACATTATCC ACCTAAATG TTCTATTAA  
216801 CCATGTGGTT TTAAGAGGTA TTTAAATTTT GGAATTTTAA ATAGCTATCT  
216851 GTTCTTCTG TAACTTTGAT TATATTATAG CTTTCTTGA ATGAGGAGAT  
216901 AAAACAGATG TAAATATTAA GACAAAAGCT TGATGCCTAT GAAACAAATT  
216951 ATTTCCAAGT ACATAGAGTG AAAATACTTT AAAAGCCTTT GAATTTGGCA

FIGURE 3JJJ

217001 ACTTTCTCTT TGCATTCCCT TTCCTGATTC TGTAGCAATC ACTGCTTGT  
217051 TCTTAATGAA CTGGTACTCA AAGGTCATTC AGAAAGATTC ATTAAACCA  
217101 GTAGGGAAAT AATTCTACAG ACTTCCTTTA ACCAACCTGT AGTTTTGTTT  
217151 TCTTTCTTAA TAGCCTCAGG TCTCAGACAC AACCATCTTT TATTTATTTT  
217201 TTCTTTCTTT CTGGAATCAA ATAACCTTTA AAGATTGAG AAAATCAGCA  
217251 CCAATATTGG AAGATTAAAA CTGATCCAT CTGTCAGTTA GAATTTTGAT  
217301 TTGGAAGAGC CGCAGGTAAC AGTGTAAATT CTAGTTTAC AAATGTAGTA  
217351 ATAAAGAATA TACTTCAGTG GCAATTTAAA CTTCATATTA GTGAATTAAG  
217401 ATACTCAGTA AGTTTCAGGG TATTAGATTG ATAAAGCAAT ACCTGGATTA  
217451 ATGACTAGTC ATTATGAGGT GTACTTTTAT CTTTCATTTA AGTCAAACT  
217501 TATGTTGCAT TACATGCTTT ACAAAAATTG CCACATTATT ACATTATGGT  
217551 TTGGCCATAA ATAGGAGCAA TTTTGGGAAC CATTTATTTT GTGAATGGTT  
217601 ACTGATTTTC TGAATCATTC AAGTTCTACA TTCTATTAAA TTTTATAAGC  
217651 CTATTATTTA ATATGAGCTT TTTCTGTTTT CAGACTGATA CCCATTATTT  
217701 TTCAGTCATA GCAGAGAAAT AGGTTTCCAG GATAAAACAA ATTGTTGAGG  
217751 TATTCAAGCA GCCCTCAGGA GTAGGCAAAAT ATCAACAGAT AGGTCACTGA  
217801 GAGATCAAGG GATTTACTCT TTTCTTTGGT ATACCATAGT TCTTGAAGGC  
217851 TAAAATTTTG GTAACGTGTT CAGGAAAATA AATACTGTAC TATATTTCTG  
217901 TTCTTTCTCT CAATCCTGTT ATGTAAGTA AACAAACCTG TTTTCAGAAT  
217951 ATCTAACCTT TAGTTGAGTA AATGACAGGT AGGAAATAAA GCTGTTGATA  
218001 CAGGAGAATG AGTAAGTGAA AAAATCCATC CTTGTCAAC CACTCTTATT  
218051 TTTTAAATTG AATCTGCTTT CAGTTTCAGT AGTTGGGAGT GCTAGATGTA  
218101 CATAGCTTAA TGGATTTGGT GCTTAAATTT CTGGTTTTCT TCTTTTACTT  
218151 ACATTCCAAC ATCACAATAG AAAATAATGC AAATAGCCTT CTAAATGATT  
218201 GATATATGAT GATATGTTAG GCTTATTTAT TGAGTCAATG CTTCACACCT  
218251 GTTCTGTGTC ACAACACCTC CCTTAGAGGA TAAGGTTTTT TTTTTTTTFA  
218301 AAAAAGCGAT TCTTTCTGT AATGCCACAG GCATTATAAA TCTCTCAATT  
218351 GAAAAAATACT GAATTAAATT TGCTTCTTAT TTAATACTAC TTAAGGGTAA  
218401 CCCTTTGTAT ACTTGTTTTT TAAAGTTGAT TGCTTATTAT CACATTGCTC  
218451 TATGTGTATT CCCATTTTTT AAACCTTGAC AAGATACTAA TTTTATATT  
218501 CATGGTAATA ATAATCTTAA CATTATATAA CATTTTCACA ATATGGAGTT  
218551 TACTGAAAAC AAATCTAAAA TTTTACATTT AAGTTCACCTA AAGTAACACT  
218601 TGTAGGATGA GAAAGATTTT ACTTGTTTGG TGGTACATGG AAATTTGACC  
218651 CCACATGGAA CAAAAGTTAA CATTGTCAATG AAACACTATA AAAAAATGCT  
218701 CGTGTCTATT TAGCCTACAT TAATTATAGC ATCTAGATTG CATAACTAAT  
218751 AACTTCATAG TATTCTGTCC TGGTGAGATG ACATCTAGAA TATAACACAC  
218801 AATTTTGAGA TTTTCATGATT TGCAACTAAT TTTGGACATA ACAGGCAAGG  
218851 TCCACAGCAT ATTTTACCA TGGATAATAG AATGTAAAAT AGTTACTGTT  
218901 TFCATGTGTT TAAAAGTCTG TTCTCTAGAA AAGACATGAT TTTAAAAGAA  
218951 AGTTTCTAGC AAAACAAAAA GAATAACTTT GTGGTGAATT GGAATTTTTC  
219001 ACTAGGGGAC TTGCTTGTTC TGGTAGGCAT TGATCTCCCA GTTGTCTGCG  
219051 GTGCTTTTAA AAATTATATT ACATTTCTGC TGCATTGACT AGGAAGTTAA  
219101 AATTAGCCAG GCATGTGTGG GTGGGCCCTGT AGTCCCAGCT ACTCAGGAGA  
219151 CTGAGGCAGA AGAATCGCTT GAACCCAGAG GCGGAGGTTG CAGTGAGCCA  
219201 AAATTGCCCC ACTGCACTCT CCAGTCTGGG TGACAGAGCG AGACTCGGTC  
219251 TCAAAAACAA AACAAAACAA ACAAAACAAA AAACAGTGTT ACTCTATAGT  
219301 GTACTGTGTT GCCAGATTTG TTTTGCCAC CTGTAGGCTA ATGTAAGTAT  
219351 TCTGAGCATG TTTAAGTTAG GCTGGGCTAA GCTATGATGT TCAGTAGGGT  
219401 AGGTATGTTA AATATTTTTT TGATTTAATA TTTTGAGCTT GATGGGTTTA  
219451 TCAGAATGGA ACTCGGTTGT AAGTAGAGGC TCGATCTGCA TCTTTGGAGA  
219501 AACGCTATGT CAAGTTTTTT GCCACTTTT GAGCTGGGTT GTTTGTTTTT  
219551 TGTGTTGTTG TTGTGGGTTT TAGGTATTCC CTATATATTC TGGATATTAA  
219601 TCCCTTATCA GATAGATGAT TTGCAACAT TTTCTTTTCT TCTGTGGGTT  
219651 GCCTTTTTTAC TCACTTGCCA CTTTTTTTGA GCAAAAGTGA CCCCTCCTAA  
219701 AAGGGGGGAT ATATGTATTT TAAGACCATT CCTTGGCAGT ATTGTCCTTA  
219751 GAGCTTTAGG TTGACTATTT GAATTCGTAT GGTCTTTGAC TCATCTCATC  
219801 ATCTAAAACT CCTTGATGTT TTCTCTCTTT CTTTAATGTT ATATAGACAC  
219851 AACTGGGACA GCTGACAGTG AATATAGGTT ATATTTTTGC GAAGAATTTA  
219901 GCAAGAGAGG TTGGCTGTTT GGCATTAAAT ATCTGTATCA CTGTGAAGTT  
219951 TTTAATTGTT TTTGGATACT AATTATCACT GAACATGACC TAGAACAATA  
220001 CCTTATTACA TAGAGTTACT CATTGTGCAA ATGTAGGAAT GAATGTATGT  
220051 ATGCATGCAT GTAAGTACAC ATGCATATAG CCTTGGTAGT TACTACAGTG  
220101 CTATCATAGA TGTAAGTCTT TTCACAGGCC TGGGTAGACA GCAGTCATGT  
220151 TTTATTTCATG GCCTAGTCTA GCATGGTTCC TGGTACTCTT AAGTTTGGT  
220201 GAATGTTCTG CATATAAATA AATATATTTA ATTTAGAAAG CATCAGAAAA  
220251 ACTAACATTT GGATAAAGCA GATATAATTT TGTATTATAT ATGTGAGTAA  
220301 TTTTCTTTCA TCTTTAAATT GTCATATTTT CAAGGAATCT ATTCATTGTT  
220351 GATTTTCATG CCCTCTTAAA CAACTTGAGA TACGTTAACT TTGGTAATCT  
220401 GTCATAGACT TCACTTTCACT CTGTGGCCTT TAATTTAAGA GAATGGTAGT  
220451 TCTTTAGATG CTCTCTCAGG GTTAATCTCC CAACAGCTGG AAAACCAAGA

FIGURE 3KKK

220501 ATGGCTGTGA AAAGTACTTC TTTACCTAAT ACAGGATTGC ATAAGTACTT  
220551 GCTTTTCCCT TAAAAATAAT CTGCAGTATA CATGGATCTT AAAATAGGAA  
220601 TGATAACTCT TTTGTAGAAA TATTAGGGGA TCAGAAGAGA TAATTTATAC  
220651 GAATCATTTG GCTTACAATT TGTGTAAAAG TGAGGCCTTG AGACGCAATA  
220701 GCTATTACAG GGTGAGCATT CTAAGTTGGA AAATTCAGA CCTGAAATGC  
220751 TCCAAAATTT GAAACTTTTG AGTTCTAACA TAATGCTTGA AGGAAATGCT  
220801 CATTGGAGCA TTTAGGATTT TGGATTTTAA GGTTTGGGAT GCTCAACCTT  
220851 AAACCAAGTAA GTATGTATAA TGCAAATATT ACAAATCCA AAAAAATCT  
220901 GAAATCTGAA AACTCTGGT CCCAAGCAAT TCAGATAAGG GGTATTCACC  
220951 CTGTATTATT AGTTTTTCCA GAAAAAATAA AAAAGATTA TCAAAGATAC  
221001 ACACCCGACT TTAGCACTAA AATTTTTAAG TTGTTGTACC TTCAATTGCT  
221051 TTATTTTTCC CTTTCAATTC TAATGTTAAA AAATGTAATC CTGTTTTACA  
221101 AAATATTTCA GCAAGTTTTC AGCAGTCGTC GCTATTACAT TAACTATAAA  
221151 TAATCTTTTG GGAGACCTAT CAACATCTAC TTTCTCTTTC ACAATTTGAT  
221201 AATTAACGTA TATCACATCT GTGCCCTTCT TTCTAGGGAT TTCCAAGATC  
221251 TGATGGAAAT TGTCAATGGT TGTGTATATA TGGCTCTTAT CCATTGTCAG  
221301 TAACCCACCT TCTTATGAGC TTTTCCAATT TTCGGGCAAA TAACTAAGTA  
221351 CAGTATTTGT GCTGATATAG GTACAAGAGT TTAAGAAGG CATGACTTAA  
221401 GTGTTACTAA GAGGAAATAA GGAGAAATTA TGTTAATAAA TTGGCATTAT  
221451 ATACTAATAA AGTTAGTCTC CAATCTGTGG AAACATGAAG AATAGAATGT  
221501 AATGCTTTGC ATTTCTCGGT GGATGAATGA TTTTAAAATT TCATACATGG  
221551 GGGAGAAAAT AAAAATACTC CTGAACCCAA AGCTTGACTT CATTCAGGGA  
221601 TATGCATAAA CTTCTCTCTC TTTTTTTTTT TTTTCTCTT AACCTGAAAG  
221651 GACATTTAGA AAGCTAAATC TATTTTTCTT TCTTTTCAGT CAGAAAGTCA  
221701 GGCCCTACCA GCAACAGACT ACTGGTGTCT TGTAAGGGCT ATATAATGTT  
221751 TTCATCGTAA TGCTATATAA TGTTTTCATC TTTGTATTGG TTAGCCCAGA  
221801 CTTTTTGTGT AGTACTAGGA AGTATTTCCA CAGATGTTGA GTGAGTGGAT  
221851 AAATGAATTA ACTTGTGTGG TATACCTGGG GAAAAGGCAG TAAATGGGTA  
221901 GAAAACTCA AGAATAATCT ACACCTATGG GGTGACAAC TTTTCCAGTT  
221951 GCTCTAGGAA TTACTGTAAT CATTTTCTTT CTGTTATACT GCCTTATAGA  
222001 TCTGATGGAA ATTTTGAAAA GAGTGTGTTT TCATTGTTTA GCTCTATATA  
222051 TCTGTTGGCT TCATTTGCTT TTAATATTTT TTTCTAATAG ATACCTTTCT  
222101 GGCTTGACCA GCAAAGTTCA ATTAATGTAA GGATAAAATG TAAATTATCT  
222151 AATTCAGCTT ATTTACATGC TGTAAGTAAT ATAGTAATGC TAACTGGGCT  
222201 TTCCCTGGCT TTTGTTTCAT TGTGATCTGA GCTCAGATTA TAGTTTGATC  
222251 TGCTATGGCG TGACCTGGGT GCCAGATGCA AGGGAAGCCA GTAAATAATA  
222301 CTATAAAGAG AGATGCTAGC TTTAGTTTTG AAAGGACGAT GACTTGTAAG  
222351 TGAGACTGTT GTAAACCACA CAGTAATTTA AAAGCTCCAT AATTAAGAAG  
222401 GATATTTCTT TCTTTAACC GTTGGGGGAA AAGTACTTGT TTTTATAGTC  
222451 AAAGCATTTT TCTCAATAAA GTTGGGGGAA AAGTACTTGT TTTTATAGTC  
222501 AGTTTTTGAA ACATAGGAAA AGTGACCTCA AAGAACCCTG GTTGTAAAAT  
222551 TTTTCAGAGT ATAGGAACCT GAACCTTTGT TCTTGATTAC TTGATGAAAT  
222601 TGGTCATACT TTTGATGAA TAGTTCTGAA TGGCCTTGTA GTCTTCTGTT  
222651 GGTTTTGGTT TCATCTTTCA GTAGATGGAC CTGTGGAAAA GTGGAACCTGG  
222701 CTTTGAAAAT GACTGGAAG CAGTTATTTT CCTAAGACAA TAATTTTTTT  
222751 TCTCTTTTCC ATTTTCTTTA GAACATACAG GCTAGAAGAT CCCTCAGCA  
222801 TTTAATGCAT ATGACTTTAC ATTGCTGTTT ATCTTTTTGT TTATCCCGAA  
222851 ATTGGAAGCT TCTAAAAGGC AGAGATTAC TCTCTTCTG TGGTGGTTCT  
222901 AGAGGCTGTG CCTTGATAG AGTTAATTTT TAAAAAATAA TTAATAATTA  
222951 TTTTCTTTAC CATTTCTATT ACTCATTTTT CAATTTGGAG AATAATTTTA  
223001 CCTGGCCACA CTGATGGAAC TTGCATACAT GGGCCAGCTC TTTTACTCAG  
223051 TTGCCCAATT TTTGAATGAA ACTGAAAATC GTGGACAGAT ACATCAGGGA  
223101 AGAGGAACAT ACAGAGTAAA AGACATAAAA GCCTTAAAGT TGCTTCAGTT  
223151 TCTTCATTTT ATCTTGTAAG TTACACAGGA GTCCTTCAGA TAAAACTCAC  
223201 TGGTTATATG ACAAATTAAG CAATTAGATT ACTGCACACC TAATAATAGT  
223251 AGCAAATAAT GCACTTTCAA TCTGCTAATA TGTTAAGCAC TTTTCATTAT  
223301 CTCCTCTTTT TACATAAGGG GAATCTGAAG TTTAGGGAAT TTAAAACCTC  
223351 CACAAAGTTA GTAGTCAGTA GTTTATATAC TAGTATTTAA TCTGTTTAAA  
223401 TCCAAAGCCG GTGACATTAA CAGTTTCCAA ACGATAATAA CAAAAGTGAA  
223451 AAATGTTAGT ATCATCTCTT GAGAATTCAC TACATAAAAT TCTCTTCCAA  
223501 ATATTTACTC ATTTTATAGA TTAGGAAACT GATCCCAAT GAGGTATATC  
223551 CTTTTGGTAT ATTGGTTAAA GAATAATATA TCTACTTGAG AGTGGCATCC  
223601 TAATTACTGA AAACCTGGACT ACGAACTTTT AAAGTTTAAT TAACAGTAAT  
223651 TTAATGTATT TTTATGTTAT TTCTTAATCT TTGGATTATT TTTTCTTTTT  
223701 GGAGGTTGTG TATACTCTGA ATACTTATAG CAGTACTTCA GAACAATTTA  
223751 GAACATATTT TACTTCTTAA TGCAAATTTA ATGTCTAGAA TCTCTTTAAC  
223801 ACATGTGATA AATGCCAACA GAAAGAGATT GATTTGCTGT CATGAATTAG  
223851 ACTGACAGAT TTCTCAACAA CACTAGATGC AAGAGGCCAC TAAATAGGAA  
223901 ACTAACTTTG AACCTAAGAT TTTATCCAAC TAACTTATTT AAATATGAGG  
223951 GAGAAGTAAG GATATTTGCT CATATACAAG ATCTCAGAAA ACTTACTGTA

FIGURE 3LLL



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224001 CCAACACTAT TTCTGAAAAG CACCAGGCAA GAAAAGTATG TCCAGAAGGA  
224051 ACTAGTGAGA TATAGTTAGT AAAAGGAAAT AAAGAACCCA AGAAAAGGTA  
224101 TAGTTTTATA GCCACACAAT GGGGAGAAAA ACGGAAAAGA AGGGGAAGAA  
224151 AAGAAATAAG AGCCAAGTAA TTTGTTGGCT TAGAATTAAG ACTCCAGGTA  
224201 ATATTAGTCT TTCAAGCAGTT ATGGGGACAA GATGGGTAAG GAAGTCAGTT  
224251 AGAGATCAGA GTAGGTGAAA ATTTTGAGGT TCTTGATTTC ATCAGGGAAA  
224301 GTATTTATGA ACTTTAGACA CTAACAGTGA AAAATATGCA TAGTTATGAA  
224351 ACTCAAAATT AAGCTCTCTG TTTAATAATA GACATCAGAG ATAACATGAA  
224401 CAGATACTGA TAAATTGAGA AAAGAGCTTC AGTACCAAAT GAAACAAAGA  
224451 ACACAGATTT CCAGGTGCTT TTTTATCTGA TCATGTTGCA GCACCATTTG  
224501 AACCATTGTG TCACTTTAAC CAAGCCTCCA ATATTTTTAT TCTTTCAGAT  
224551 CACAAGGGGT GGATGCCAAA CCTCTCATTT TTTTCTCAT GATTACACTA  
224601 CAAGGCAAAG CGCACAGGGT TTGAGTTGCT TGCAGTTGCT AGGGACATAC  
224651 ACCTAGGGAC TGACTACTAG GGCAACCTAT GCTGTCTATG CACATTGTTC  
224701 ATAAGTCTTC CGTGAGCAAA GATCTGTCCC AACAAATGCC CCATACTCCT  
224751 TTCACTTCCA AGTTATTTTC TATCCTAAAC AATTTTTCTT TCCTTTTATC  
224801 TGGAACTCC AAGATCTATA ACATTTTATC ATAACTTGA TCTTATTTTA  
224851 TATTATATAT TTGTGTCCC ATTTCACTCT TCTGTTATCT TACTCTAACA  
224901 CTTAAATGCT GTATGATCAA AGTTAACTAA TTTCTTAAAT TTAATGAATC  
224951 TCTTTAAACC AGGAGATGTC ATGTCTTGGT TGTGCATGGT ATACATAGGA  
225001 ATGATAGTTT AAGGAAACCC ATTTCTAGAT CTTTAGTGCC TAAAACTGAT  
225051 CTGCTTGAGA ATTCACCTGT GATGGGGGTG GAAGTTTCTC TTCTCCAAAC  
225101 TCCTCTTTAC CTCTGAAGCA TCAAACAAGT GGGCAGTGGG AAATACAGGT  
225151 ATTACGTTTG AGAGATAGA TGGCACTAAA GCCATCTATT ATTAACCTGG  
225201 TACTCAGTAC CAGTTTACTG AGTGTGGTCT GAAGATCATA ATAATTACCA  
225251 TTTGCTTTT TTTGCTTTAT TTTCTCAGTA GTTACAATTA AAAAAGATTT  
225301 TCAGTTGTTA TCTGTCTATC TTCCTGATAT ATAATATAGA CAGATTTCAA  
225351 ATACTTGAGG AATATGATTA GAACAGAATT ACTTCTCGCT TATTTGTATG  
225401 AACAAGGTTT CTCTGTACTT TATTCACAAA ATTTTTTTTA GAAATTGAAA  
225451 TAGAATCTAA AAAATTGAAT TGTAAGCAATA AGTAATAGTT TACAATGTCT  
225501 ATAAAAATTC ACTGGGGAGG GAGACTAATA AGAGGATTCC AGCTGTCTCA  
225551 TTAAGAAACG AACTTTCTAT AACCTTAATG TTTAATTATA TTTTCCAAAA  
225601 ATCATTAATA CATTATATGA ATTGTACATG AATCATTGTA ATGCTCATTC  
225651 AATCCAGAGG AAACGTAATA CTAGAACCT TATGTTTATA TGAGTGAACA  
225701 TTTTTTAAAA TTTCAAAATA TGTGCATATT TTTCTAAGAA TTATTACAAG  
225751 ATGATCAGAG AAAGAAGGAA ATTCTATTGG GATAGTAGAG TAGAAGTACA  
225801 AATTCAAGGA GAAAAAAGA GCAGTGTAAG ATTTCTCAAA GATATCTTTT  
225851 AAATAGATGG TAGTGTTAAA TCACTGTATA TTTAAATCTG TTGAATATGT  
225901 TGAAAGAGTT GATGTAAGG TCTTATTTTA AAATCTCAAT ATTTACAAAA  
225951 CTCTGGAAT TACATCTTT ACCACTATTT AAACATGGGT ACATGTGAGA  
226001 AGGCAAAAT CTCAATTTTC TTTTTTAAGT ATACATACAG TTCCTTTTTA  
226051 GCACTAAGAG CTACGTGTGC ATAATGATTG AGACCAGAAC TCCACATTTT  
226101 GTTGAAAAGT GGGGAGTGAG GGGGAGAGAG AGAAATGCTT TTAAAAATTAA  
226151 ACAAATGAAAC TTTTCCGGGG AGTAGTGAAG AGTGGGTGGT TATAAAATGA  
226201 CTTGGAAGCA GATCAGCTGG AAAGGTGAAA GAATCAGAAA GCAAATATAG  
226251 CAGTGGATAA TGGAGTTGAT CTGTAGCTAG CCTATAGCAA CTGCCCTTAC  
226301 TATATTTTAA TATGTGCCAT TAAGTGTGTC TCTTGATTGC TTCTGCTTTC  
226351 TGCCAGTATG GCTTACTGTT GTAACATAGAG TTAGTTAGCT GGCCCACTGA  
226401 TACCACCAAC AGAGCCTTTT CTAATCTATT ATAGATTTCT AACGTGGGAT  
226451 AGGAGGCCAA CAATGTTTCT TTGATTACAA ATAGGAGGTA CATACCTTGC  
226501 CAAAAATTTG CAACATGATA GAATTGAAGT CAGTACAGAA CACACACACA  
226551 CTCTATTTTT TTTTTTTTTT TTGAGACAGA GTCTCGCTCT GTCGACCAGG  
226601 CTGGAGTGCA GTGGACGAT CTTGGCTCAC TGCAACCTCT GTCTCCCGGG  
226651 CTCAAGCAAT TCTCTTGCT CAGCCTCCCG AGTAGCTGGG ATTACAGGCA  
226701 GGTGCCACCA TGCCCGCTA ATTTTGTAT TTTTAGTAGA GACAAGGTTT  
226751 CACCATGTTG GCCAGGCTGG TCTCGAATTC CTGACCTCAG GTAATCCGCC  
226801 TGCCCTCGGC TCCCAAAGTG CTGGGATTAT AGGCGTGAGC CACGGCGCCT  
226851 GGCACACACA CACTGTTTTT ATACCACTGT TACTTTACAG TTTGCCAAG  
226901 TTATGACAGA GATGGCACTT ATACTTAGTA AATAAATTTG ATAAGTTACA  
226951 GGCTTACAAA TGGAGAAATC AAGAATCAGG TGACTAAAGT GAGATGGAGA  
227001 TAAAACTAGA TAAGATGAGT CTTTGCTGCA ACACCTTGACA AAATCCTGGG  
227051 AGAAAGGATA AAACCATCTA ATTCATAAAA TTTATAATAG GCCAATGGAC  
227101 TGGAAAGAAA AAGAAATACA GGAAAGATAC TGTGGAAGAG AAATTACAGA  
227151 AAAAGGTGAG GAAAAAGTTA ATGTCTGGGG ATGGGAATAA AATGAGAAAT  
227201 GGGGTTTAGC TGTCTATAAT AAAACAAATA GAAAAATGAAG ACCAAAGCTT  
227251 TTTCTCTGCT TCGAATTGTA CTTTTCAATT TCATAATATG TTTGTCTAAA  
227301 TCAGTGTATTA TCAAAAGGGC TCTAAGGTGT GCATCTGAGA ATTATGCATG  
227351 TACATCAGAA TATGCAAATG TTCTCTTTTC TTCATAAGAT TCTGGTACAA  
227401 CTTAATGATC TTAAAAATG CTTACCCAAT CCCACCTCAC ATAGGCACAC  
227451 ACAAAAACCA CTGGATATTT AGATGGAAC GTGCTGTTCA TTTCAATGGT

FIGURE 3MMM



227501 GTTGAAGCCT AACTAATGTG ATTTTCATCA TGTAGCAAAC ATTTAAAACT  
227551 TTTGAATTTC CTAAGCATTG TTTTAGGAAA TAGCTTTTTT TTTTGGTCAG  
227601 AGTCTCACTC TGTCGCCCAG TTTGGAGTGC AATGACATGA TCTCTGCTCA  
227651 CTGCAACCTC CGTCTCTAG GATCAAGCAA TTCTTCTGCC TCAGCCTCCC  
227701 AAGTTAGCTG GGACTACAGG CACACGCTG TAGTTCAACA TATGCAAAATC  
227751 AATAAACATA ATACATCACA TAAACAGAAC CAATGACAAA AACCACATGA  
227801 TTATCTCAGT AGATACAGAA AAGGCCTCG ATAAAGCTCA ACACCCCTTT  
227851 ATGCTAAAAA TACTCAATAA ACTAGGTATT GATGGAACAT ATCTCAAAAT  
227901 AATAAGAGCT ATTCATGACA AACCCACAGC CAGTATCATA CTGAATAGGC  
227951 AAAAGCTGGA AGCATTCCCT TTGAAAACTG GCACAAGAAA AGGATGCCCT  
228001 CTCTCACCAC TCCTGTTCAA CATAGTACTG GAAGTTCTGG CCAGGGCAAT  
228051 CAGGCAAGAG AAAGAAATAA AGCGTATTTA AATAGGAAGA GAGGAAGTCA  
228101 AATTGTCTCT GTTTGCAGAT GACATGATTG TATATTTAGA AAACCCCATC  
228151 ATCTCAGCCC AAAAATCCT TAAGCTGATA AGCAACTTCA GCAAAGTCCC  
228201 AGGATACAAA ATCAATGTGC AAAGATCACA AGCATTCTTA TACACCAATA  
228251 ATAAACAGAG AGCCAAATCA TCAGTGAAC CCCATTCACT ATTGCTAAAA  
228301 AGAGAATACC TAGGAATCCA ACTTACAAGG GATGTGAAGG ACCTCTTTAA  
228351 GGAGAAGTAC AAACGACTGC TCAAGGAAAT AAGATAGGAC ACAAAACAAAT  
228401 GAAAAAATAT CCCATGTGCT CATGGATATG AAGAATCAAT ATCATGAAAG  
228451 TGGCCATACT GCCCAAAGTA ATTTGTAGAT TCAATGCTAT TCCCATCAAG  
228501 CTACCATTTGA CTTCTTTCAC AGAATTAGAA GAACTACTT TAAGTTTCAT  
228551 ATGGAACCAA AAAATAGCCC ATATAGCCAA GACAATCCTA AGCAAAAAGA  
228601 ACAAAGCTGG AGAGTTCACA CTACCTGACT TCAAACATA CTGCAAGGCT  
228651 ACAGTAACCA AAGCAGCATG GTAGTGTGAC CAAAACAGAT ATATAGACCA  
228701 ATGAAACAGA ACAGAGGCCT CAGAAATAAC ACCACACATC TACAATCACC  
228751 TGATCTTTGA CAAACCTGAC AAAACAAGC AATGGGGAAA GGATTCCCTG  
228801 TTTAGTAAAT GGTGTTGGAA AAAGTGGCTA GCTATATGCA GAAAAAATGA  
228851 AACTGGACTC CTTCTTACA CCTTATACAA AAATTAATC AAGATGGATT  
228901 AAAGACTTAA ACATAAGACC TAAAACATA AAGACCTAG AAGAAAACT  
228951 AGGCATTACC GTTCAGGAAG TAGGCATGGG CAAAGACTTC ATGACTAAAA  
229001 CACCAAAAGC AAAGGCACCA AAAGCCAAAA TTGACAAATG GGATCTAATT  
229051 AAATAAAGA GCTTCTGCAC AGCAAAAGAA CTATCATCAG AGTGAACAGG  
229101 CAACCTACAG AGTGGGAGAA AATTTTACA GTCTATGCAT CTTACAAAGG  
229151 CCTAATATCC AGAATCTACA AAGAATTTAA ACAAAATTTAC AAGAAAAAAA  
229201 CAAACATTCC CATCAAAAAG TGGGTGAAAA AGTGGGCGAA GGATATCAAC  
229251 AGACACTCCT CAAAGAAAGA CGTTTATGCA ACCAACAAAC ATAAGAAAAA  
229301 AAGGTATCA CTGGTCATTA GAGAAATGCA AATCAAAACC ACAATGAGAT  
229351 ACCATCTCTC ACCAGTTAGA ATGGTGATCA TTA AAAAGTC CAGAAACAAC  
229401 AGATGCTGGA GAGGATGTGG AGAAATAGGA ACGCTTTTAC ACTGTTGGTG  
229451 GGAGTATAAA TTAGTTCAAC CATTGTGGAA GACAGTGTGG CGATTCTCTA  
229501 AGGACCTAGA AACAGAAAGA CCATTTGACC TAGCAATTCC ATTACTGGGT  
229551 ATATACCCAA ATGATTATGA ATCATTCTAT AAAGACACAT GCACACGTAT  
229601 GTTTATTGCA GCATATTICA CAATAGTAAA AACTTGAAC CAACCCATAT  
229651 GCCCATCAAT GATAGACTGA AATAAAGAAA ATGTGGCACA TATACACCAT  
229701 GAAATACTAT GCAGCCATAA AAAAGAATGA GTTCATGTCC TTTGTAGGGA  
229751 CATGGTTGAA ACTGAAAACC ATCATTCCCA GCAAACCTAA ACAGGAACAG  
229801 AAAACCAAA ACCTCACATT CTCATTCTTA AGTGGGAGTT GAACAATGAG  
229851 AACACATGGA CACAGGGAGG GGAACATAAC ACCTTGGGGC CTGTCTGGGG  
229901 ATGGGGGTGG GAAAGGGGAG GGATAACATT AGGAGAAATA CCTAATGTAA  
229951 ATGATGGGCT GATGGGTGCA GCAAACCCAC CATGGCACAT GTATACCTAT  
230001 GTAACAAACC TGCACACCTA TGTAACAAAC CTGCACATTC TGCACACGTA  
230051 TCCCAAGACT TAAAGTATAA TAATAAGCAA AGATAATTAG AAGACAAGCT  
230101 ACAGGCTGGG GGAGAATATT TGCAAAAGAC ACATCTGATA AAGGACTGTT  
230151 ATCCAAAATA CACAAAGAGC TTTTGAAATT CAACAATAAG AAATCTAACA  
230201 ACTGGATTTA AAAATGGGTG AAAGACCTTA ACAGACACCT CACCAAGAA  
230251 GATATCCACA TATCAAAATA GCATATGAAA AGATAATCTA CATTATACAT  
230301 CAAAAGAGAA ATGCAAAATTA AAACGAGACA TCACTACACA CTTGTTAGAA  
230351 TGGTCAAATT CCAGAACACT GACAACACCA AATTCTGGCA AGGATGTGGA  
230401 GCATCAAGAA CTTTCATTCA CTGCTGGTGG GACTATAAAA TGGTACAGCC  
230451 ACTTTGGAG ACAGTTGGAT AGTTTAAAAA ACTAAACACT CTTACCACAT  
230501 GATCCAACAG TTGGCTCCT TGGTACTTAC CAAAAGGAGT TGAAAACATG  
230551 TCCACACAAA AACCTGCATA CAATGTTTAT AGGAGCTTTA TTCATAATTG  
230601 CAAAAGTTG GAAGCAAGGG ATAGCTGACA TCTGATGGAT AAAATAATAA  
230651 ATAGAAGAGA AACTTGGGAG ACTGAGATTT CTTTAACAGC GGTATAATA  
230701 GCTAACATTT ATTTGAATACT TAAGTGGCAT GCAGTGTCTT GAATGCTTAT  
230751 GTTAAATTAT ATATCTTCCC AATAACAACC ACATGTATCT GATTATCAAA  
230801 GAATTTTCTT CTTGATTACT TTTGTCTTTC AGATATTTAT TAATCTTCTC  
230851 ATTATCTCAG TGGGCAATTG AGTCATGTCC TAGCTTCTCT TTTTAGGTGG  
230901 AAACCTTGACA GGCCTAGAAT GTCCACAGTG GCTCACTAT ATGTCTGGCT  
230951 TATCTGGGAC TTTCTCTGT AGCACCTTG AACTCTTCCA CATGGCCTTT

FIGURE 3NNN

231001 CTACAGCATG GGCTTCTCAC AGCATGGCAG CCGAGTTCCA AGGCAGAACAA  
231051 TTTCAAGCCT TGGAAAGGAA AAGCTGCAGA TCCCTGAAGG CTCACCTCTGA  
231101 ATTTATACTA TGTCACCTTG CCAATTCTCT TGTCTTTGT TTTGATAGAG  
231151 CATCTCACAG GGCTAGCCCA AATTTTCATGT AGATTCAACC TCTTGATGGG  
231201 TAGAGAAGAA AACTTTTTGT ACCCATTTTT TTTCTTGGAC ATTTATTTTA  
231251 AGTTCACAGG GACATGTGCA GGATGTGCAG ATTTGTTACA TAGGTAAACG  
231301 TGTTTGCACC CGTCTTTAAC CCACTACAGA TATTATGATA GTTCTCTGTG  
231351 TTGTTATTAT TACTGTAAAA TTATATTTAT AAGGGTAAAC TGCTTTTTTT  
231401 ACTTGTAATA ACATGAACAT AAAAAATACC AATGCAACAT GTAAAGGTAG  
231451 CTCCAAAAAT TAGTAAGCAC AAAGAAAATC AAGCAAAATA AGCACAATAA  
231501 AACCACAGTA GGGCATATCC TAATGAAACT GTTGAAAACC AGTGATAAAA  
231551 AGAAAACCTT AAAAGCAGTC AAATGGAAAA AGAAAAACA AACCCACACA  
231601 TTAATAACAA AGGAAAAAAA GTAATAATTG TCATTAACCT CTGGCAGAA  
231651 ACAGTGCAAA CCAGGAGGCA GTGGAATGCT GTCTTTAGAG TTCTTAAAGA  
231701 AAAAACTGTT AATCTAGAAT TCCCTTTCAA GCAAAAATAT CCCTTAACAT  
231751 ATGAAAGTTT AGTAAAGACA TTTGTCTTTC AAAGACTTTT GAAAGACAAA  
231801 ATTATCGGAC AAATTAAACT TGTGAGAATT TCTTGTAGC CAACTTGAAC  
231851 AACACCATGA GAAATGATAC CAAGTCTTTC AGGCTGGAGG AAAATGAAGC  
231901 AGATGGGAAC CTGAATCCAT TCACTAGATG GAAGCTTGA AGAAATGGAG  
231951 GAGAGGGTTA AGTAAAGTGA AGATTTGAAT AAAAATAAGG GAGCTTTTTT  
232001 TTTTCTCAT TTTCCAGTTT TTTAAAGATA CTTTACTGTT TAATGTTAAA  
232051 ACCGATATTA TAGAGTTCTG TAATATTCAT CAAAGTATAT ACATGACAAT  
232101 ATTGCCACAG ATGACAAGAG AAAGGAAAAAT GGAACATAT CCTTATAAGC  
232151 TCTTAAAGTG ATAAATAAT ATTTGTAGAC AGGTCAACAG TTTAAAGTAG  
232201 CAGAGTACAG CATCTAGCTC CCAAGACAAT TGACTGCACA TCTAAGGTGA  
232251 TACTGCCCTA TACAGGCTAC CAAAAGTGTA TGATAAGTGT CCATAGTGAG  
232301 ATTTTAAGAG TAAAAACTGT CTGAATTTAA GGATTAAAAA CTAAAAAAT  
232351 AGAAACAGTT GAATTTTTGA AACAGTGAAT ATTCAACCAA TCCTAGCTTT  
232401 GTCAGTTAGT AGCTGTGTAA CCACAGCACT TAAATTTCTT TGGACCTTAA  
232451 TTTCCAAAAG GAGATCATTG ATATCAACTC TATAAGGAAG GTTATGGGAT  
232501 GGATTAGAGA AAAAAATATA TTAAGAGAAA AGCATAGTGC CTAGTGCTTG  
232551 ACATATATAT AAGAAATTTA ACAAAATGTAA CACGTATTGT TAAAGAAATT  
232601 TAAAAGGTCA AAGTTAGTTA CTTTGGAGAC CTCAGTAAAG GTGAGGAAGC  
232651 AATACAACAG ATGATTTTGA CAAACATTAG AAAATCTGAA TCTCTTGCCA  
232701 ACATTTTTTT CTGTCCACTT CTGCCCTGCT CTGCTTCCCT CTTTCCCTCT  
232751 TTTCTTCCCT CCCTCTCTGC CCCTCCTCCT TATTGTTCTC TTGATCTGTG  
232801 AACATTCTCT TGAATGTTTC TTTCTGTGTT AGTATCTATC CCTATTCTG  
232851 TTTATTTGTT TGTTTATTTA TTTAGACACA GAGTCTCACT CTCGCCAGG  
232901 CTGGGTACAA GTGGCATGAT CATGGCTCAC TGCAGCTCG AACTCCTGGG  
232951 TTCAAGCAGT TCTCTCACTT CAGCCTCCCG AGTAGCGTGG ACTACAGGTG  
233001 CACACCACCA GACCTGGCTA AGTTTTATAT TTTTATAGAG ACAAAAGTTT  
233051 GCCATGTTGT CCAGGCTGGT CTGGAATGCC TGAGCTCAAG CCTTCTCTCC  
233101 ACCTTGACCA CTTGTAGGGT TACAAGCATA AGCCACTGCA CCCAGTCTTA  
233151 TCCCTATTAT GTAAATTTTT TTCTCCTTTC TTCTCATTGT CTTTTTTTCC  
233201 CTGTCTTCTT TTCTCCACA TTCTTCTTTC CTAGTCAAAA TAGTGAACAG  
233251 AGTTACATTT TTTAGTATAT GCAATTGGCC TTGTGTATCT TTTGCTTTTG  
233301 CATCTACAGT TTCAACCAAC TATGAATTGA AAATATTTGG GGTCCGGGAA  
233351 CAAAAATTAA CAATACAGCA TTTTCAAAAT TTAATTTGTT AAAAAAATAG  
233401 TATAACTATC TGTAGCATTT ACATTGTATT AGGTATTATA AGTAATCTAG  
233451 AAATGATTTA AAGTATACAA GAGGATGTGC GTAGGTCATA ATCAAGTAGA  
233501 TACCATTTTA TATAAGAGAC TTGAACATCC TCAGATTTTG GTATCTGCAG  
233551 GAGGTCTCGG AACCAATCCC TCATGAATAC CAGAGAATAG TATTTTATTT  
233601 TTTGAGCAAC TAAATGTTG TTTTCTGTT AGTTTTAAAG CATAGTTTGA  
233651 TTTTGTTTTA AACAAAAGTT CATCTTGGTA CCTGTATTAG TCCGTTCTTG  
233701 CACTGCTCTA AAGAAATGCC TAAAATTGGG TAATTTATAA GAAAAGAGAT  
233751 TGAATTGGCT CATGGTCTG CAGGCTGTAC AGGAAGCATG GCAGCTTCTA  
233801 CCTCTGAGGA GGCTCAGGG AGCTTTTACT TACGGTAGAA GGCAGAGTGG  
233851 GAACAGATAT TATAAATGTT AAATCGTGT ATGTAATTTA AAGGGACTAA  
233901 CACCCAGGAT ATGGCTAGAC CTTAAGTTAG GACTCTCAGC TACATGGCTG  
233951 TGTTTAGTTT GCAAGTTTAT CTCTTCATCA TAGTTCCTTC AAGTATGCTT  
234001 GTCATTTCTG TTTTGAACAG AAAAAAATAA TGGAGCAAAA TCTTGAAGTT  
234051 GTAATATAGA AGTTTGAACC AGGGGTAGAA TACTGAAACA AACATGTTAA  
234101 AAGATGGGGT CTAGGCTTCA CATTACGTAC GTAACCTTC AAGGGCCTAT  
234151 TCTCTATGCT GTAGCTTTTC AATTAATGTC AATAATAGAA TTCTTAGTAC  
234201 AAAATCTCTA GATACCTAGT CACCATTTTT AAACATTAGC TTGTCAGGAA  
234251 AATGTGCCAA AAAGTTCCAA AACATGAAAT TACAAATAAA AACTTAGAAA  
234301 ATAATCCCTT TAGCAATTGG GAACTGCTC AGTACCTACT CAGATTGGAA  
234351 ACCCTCAACT TGGTCATGTT TTTTATCACC AAGACAGCTG GTATTGTTTA  
234401 CAACATATGT CTGAGTATTA TTTTAAAGTT TCTAATTGCC AGTATCTCCA  
234451 GTTTTTAAAA GGACACAAAC CAACCTCTTT GTAAAACTTC TGCCCTCCAA

FIGURE 3000

234501 AGGCTTTATG TTCTCTAAGA TAGTTAAGAA GATTAATAAAA AAAAAAAG  
234551 AAAAAAAG AACTCCTGT TCTTAATGAT CCCATGCTGA TAGTTTTTTT  
234601 TTGGATAAAG TGTAGGCTGC TGTTCATAGA GATGCCAAGT ACATATGAAA  
234651 GGAGGGACTC ATATGGAAGG TGAACCTATT ACCAGAAATC CTAACCTGCA  
234701 GGTAGGGTTT CTTTCTCTCT CAAAAATAAA ATTAACCCAT GGGGTGAGAC  
234751 GCAAATTTGG CAACAACACT GAATGATCTC TCTACAAGCT TTTTTTTTTC  
234801 TTTTTTGAGA CAGAGTCTTG CTCTGTGTCT CAGGCTGAG TGCAGTGGTG  
234851 CAATCTTGGC TCACTGCAAC CTCCACCTCC CAGGTTCAAG CAATTCTCCT  
234901 GTCTCAGCCT CCGAGTAGC TGGGATTACA GGTGCCTGCC ACCACGCCCA  
234951 GCTAATTTTT GTATTTTTTT TTTTAAAGTA GAGACAGGGT TTCACCATGT  
235001 TGGCCAAGCT GGTCTTGAAC TCTCAACCTC AAGTGATCCA CCCACCTTGG  
235051 CCTCCGAAG TGCTGGGATT ACTGGTGTGA GCCACCGCAC CCAGCCTCTA  
235101 CAAGCTTTTA TTCATCATAA CCATACACAT TTATTGTTGC ATACCATAAG  
235151 AAGCGTAAAG CTTTAAAGC CTTTCTGGA CTAGGCCACC TCTACCCCT  
235201 ACTTTGTATG GTTTACATTG GTTCTATGT GAATCATTTG ATTATTGCAT  
235251 TCATGTTTTA TCTCCAAAT ACTGCTAGCT CCCTTAGGAT GAGGTTATTG  
235301 TTTTATATAA AAGATCCCTT TCAAAAAAGT AGTCTCAAAA AAAGATTGTA  
235351 ACTCTTGATT TACATAGCAA AGTATTAATT AACAGCATCT TCCAAGATCA  
235401 GACGAGATTG AGCGTGTTCG GGGTGGTATG GCAGTAGACA AGTAACAGCA  
235451 TCTTAATTAG TTCAGTAAA ACAAATCTCT AGCCACATT ACTCCAACCT  
235501 TCAATATCAC AAAATGTGTG GTATTTCTTA AAAACATAGC TTTCTATGTC  
235551 ATCATCAAGT GAAAGTAAAT ACCTCCCCC TCTATAAAG AACAAAACT  
235601 ATTCAACTTA AATAATGAAA TATGTTATTG TTAAGAAGAT CCTAGAGTCA  
235651 CAGAACTGG ATACTGAAAA GGAAGTTTGA ACTAAGTCGA TAGCATTGGG  
235701 AGTGGGTGTA AAGAGTGGCT AGGAATGACA TCTTCTTGT TCCCATACG  
235751 CACATATACC ACTCTATTTT GCCAGATACA CCAGGCAGCT TTTCAAATA  
235801 CACACACACA CACCCACCTT TACACCTTAA CCTCTCACTG TGGCATTACT  
235851 AGGGTAGTGA GCCTCTGTGA ATGATGAAAG TGAGTAGTGT CTTGGTGTG  
235901 TTGAGCCAAA AAATAGATTG AAATCACTGA CAATACCAAT CCTCATTTGA  
235951 CACATATGAC CATTACAGCT TTGAGAAGAT AAAATGACTT GTTCCAAATT  
236001 ACTTTTGGA CAGAAAAATA CCTGAATCTC AGGTCAAGTT GTGCTCTATT  
236051 TCTTTGTAC ATTTAAAGT GTGGGGATCC TCTTGAATT AGCCTGTGAA  
236101 ATGTATTGCT ATTGAAAGT CAATCTCAGG AATTTCAAG CAAACGTTT  
236151 GTTTGTATGT ATGGGTGAAA GGACACTTAC AGTTTTAGTA TCAATGCAAT  
236201 TTGATATAAA CTCATTAGAA AGTCTAAGT TACTAAGCTA TGTATTAATT  
236251 TAAATAGGTA TAACAATAGT AGAGATGAAT AAAACATCAC TTCAGTATTT  
236301 CATCTCTCTT CATCTTGACA AGTGAAGTTC AGGTGTGGTA ATATCTATTA  
236351 TGTAGGGGCT CCCCAAAGAA CTTGGGTCA AGAAATACAG AGTACATAGG  
236401 CAGTATATAA CATACTTAT TATTGCATCT AGTCTATGGA AAAAAATAC  
236451 AGAAAGAACA TTTGAGCACA ATAAATCTCC CCTAAAGAGA GTTATTACTT  
236501 GCTGCAACCT GTCTGCAGCA GTCAGAGGAA GGAAGTCAGC AAGAAAGGGA  
236551 AAGAATGCCA GGTGCAAAAT ACCAAACGGT CCCATCATTT GCAATTCAAG  
236601 ACTAAGACGA GATTCCTAAA ACTCAAAGT CAAATTCAGC TGCTAAATT  
236651 ACAATGGTCT CCTAGATTTT AGAATCAATT TTTCTACCAG TAAAGGTGAT  
236701 CTTAATCTAA AATATTAATA GCGAAAACCA CAGAGGATAT GTGGTAAAAG  
236751 AGACTGCAGA AATTATGTCT AACCTTCTTA TTTTCAGATG AGGTAAACAT  
236801 GGATTAGAGA GTGTTTATTT GACTCCTAGT CCAGTGTCTT GTCCATTACA  
236851 TTTTGTAGG AAGAATTATA ATTCTAACAA ATTACTTCCA AATGCCAGGT  
236901 AAATCAGGCC CGATTAAAAG TATGTCTTTT ATAGCTGTTA AATGGTCTG  
236951 AAAAACTAAT TCTGAAGGAT TTATAGATAA TTTATTATTT CGTTTTCTTT  
237001 TGTAAGGTT TTGGCAAGTT TTTAATCTGA TATTATGATG CTTTGGGAAG  
237051 CTAACAGATG TTGCTCTGAA AGTCATATTT CTCACCTAAT TACAGTTTTA  
237101 ATAAAGCAGC CTGGGTAATG TTAGTTGGGG GAGTATTTAG GACACATAGG  
237151 AGCCAAGTCA GATAGAAGTC ATAGAAGTGT TGCAGTCAAG AGGCGTTTGA  
237201 TTATAAGGTG CATCATTACT TTGTAGACTA CTAAGAAAGA AAATGCAGCC  
237251 AATTAACATA TGATATGCAT TGTCTCTGAT TTCTGCATTT AAAAAATGAA  
237301 GAAATATGTT TCCTATAGTC ATTGAAATAT AGTAAGTCGT TGGTTAGGAA  
237351 AGGTAAGGAC CTTTCTAAAG GGAAGAAGC AGAGTAGAGG TGAGAGTGCA  
237401 TAGCATGTAG AGCCTGGGTT ACAGGCTCCT CTGGGAAGCA GTGGGATATT  
237451 AACTGGAAGG CTGCAGGACC TAGGACCGGG AGGTGCAGGA AGTGAGGACA  
237501 GTGCCAGAC CTAAGCCAAT TGTCTGAGT CTCCTGGTTC CATTAGTTA  
237551 GTGAACAGGA TAATGTATCA GAATCAATCT TAACAATTTA AGTGGGAGAG  
237601 CAGCATTCOA AATCTTGAGA CTCTCCTAGA ATTTAGAAGA GAAATGAAGT  
237651 GATTAAATGC CAGCCAAAAG CATTTACGCT TTTATTTTGA GGCAACAGTG  
237701 GGCTCTGAA AAGCAATGAA ATAAACAAGT TTTTAGAATA TGAATCTAAC  
237751 ATGGGTGTGA ATGAATTGG TCTGCCAAAA ATCTGTGCTT TTTGTGTG  
237801 TTGTTGTTGT TGTGTTTCAG AGACTCCTTC TAGAGTAACA ATATTGGTGT  
237851 GATGACTAGC CTTTTTCTT TCTATTTTAC CAAGTGTGTC TACTTCTCTG  
237901 AGAAAAATCC AAGTTTTACA CTTAATAGTA AAGAAGCCAG TGGTTATTTA  
237951 TATGAGATTT TTACCCACCC TAACCTTAGA CTCAGTGCCA CAACACAGCA

FIGURE 3PPP

238001 TGCTAAATTA GGTACATCC TAAAAAATA ATAATAATAA TTCACTTGGG  
238051 GTGGAGTACA GAOCCTGCCG TAGCCATCAG TTTTACTGCA GGCAAAATAA  
238101 AGACACACCT CTTCCTGAAA ACACAGACAA CACAAATTAC TGTGGCCAGC  
238151 TTCTTATATT ATAATTTTFA CATCAGCTCA TCCCTAACTG CTAATCACCT  
238201 AATACTACAA TGTAAACACT GCCCCTTCCA AAGACCAGGC TTCCTTTGGT  
238251 GGTATCTGT GATAACCTGT CATCTGTAG TATCCTTGAC ATGTCTCCCT  
238301 CTTACAAGAT TCTCTCATCT CTGCCGTGT TTTATCACT CTGTCTATC  
238351 ACTGTGAACA AGAAAATGCC TTCCCTATTG TCCCTTGCTA AATTCCTACT  
238401 CATCTTTTAA GAATCAGACC TTCCGACCAC CTCCAGCAGG AGTTTGGGCT  
238451 TCTATGCATA GAGCAGTTAC CTCTTTCTTT TTCTTTTGT TTTTTFAAAT  
238501 ACAAGTAGTA TCCCTTATC TGCAGCGGAT ACATTCCAAG ACCCCAGTG  
238551 GATGCTGAA ACCATGGGTT ATATTAACCT CTATATATAG GTTTTTTCT  
238601 TATACATACA TACCTATGAT GACATTTAAT TTATAAATTA GGCATGGTTA  
238651 GAGATTAACA GCAATAATTA ATAATAAAGT AGAACAATTA TAACAATATG  
238701 CTATAATAAA AGTTATGTAA ATGTGTTCTC TGCTCTCTC AAAATTTCTT  
238751 ATTGTACTAT ACTCACCGAT TTTCAGACTG AGGTTGACCT TGGGCAGCTG  
238801 AAACCTCGGA AAGAGAACT GAGTCTAGGA TGACTTTCTA TCTCAATTCT  
238851 TGCATTGTAT TGTACACTCC TTAAGGATAA AAGCCATGTT TCTTCAGAAT  
238901 CTTATCCCAA AAACCTAGCA GAGTGCCCTG TACATAATCA GTGGTCACTG  
238951 AATTTTTTTT GATTGATTAG ATGATGGAGA TTTATGTATG TCTAGCTATA  
239001 AAGTTTATGT TTATCATATA CAATATTGGC TTAATAAGAT ATTCTTTGGC  
239051 CTCAAAATTA GAACCTAATA GGAAGCTTAA GACATAAAAC TAATTTGATG  
239101 ACAAGGAAGC ATGAAATAAG TGCTCTAAAA AGAAACTCAA GAACATTTAG  
239151 GAAGGATATA CCGCATCCAG CAGGGGTGAC TAAGTGATAA TAATTACACT  
239201 AAGTCTTGGG GAAGAAAGGA TGCTATTTCG GGAGGTGGAG GAGAGGAATA  
239251 GGTAGTTATT CCATATGGAA ATAATACTCT AGGCAAGGGA TACAGACATG  
239301 AAAGCAAGGA ATGTATTTGA AGGATGGTAT CTTCTAATTG CATAGTTCAA  
239351 AATTCTAAAT AGGAGGTCAG TGGCTAATAG AGCTAGGCAA GGAAGTTGAA  
239401 ATCACATTAT GGAAGGTTT AGAATTTAGT AGGCAGTAGA GAGACGTAAT  
239451 TTCTGAATAG AAAAATAATC TGTCATGAGA TTTTACAAAG ATTAATCCCT  
239501 GCTCTGACTG GATTAGAAGA AACAGAACT GTAGGCCAGG GGTGCAGGGT  
239551 TCTTCAGGAA AGAAATATAA GACAAGAAGT TAACTAAAT AAAAATAAGA  
239601 CAAGGATATA TATGAGTGAT ATTGTAATGT ATAAAGAAAA GTGTCTCATT  
239651 AGACTTGCAA GCTGGTCCAT TTACATTGTA TCATATTTT AGAGAAACAT  
239701 GAACAAGCCA AAGCAAGTCC AAAGGAGAGT AATCAGGATT TGACGGGGAG  
239751 GGAGGGATGA GGGTCTGCAA GTGGTGAGTT CCTGGTTAAT CAGCTGGGGA  
239801 AAAAAAAGA CCAGGAAGGA GGAATGTGAT AGGCAGCTTC AGTTATTCAA  
239851 AGGACTGTCC TCTAGAAGAG ACAACATCCT TATTCTGTTA CTTCAGAGAG  
239901 GCAAGAAGAG AACTATAAAA AGTGGATTGT GTCCGGAAGA GTGTGACCAA  
239951 GATATGGAAT GATTTGAAA CTGTGTACA CAAGAAGAAAT AAAAGTATTT  
240001 TTTATGATAA AGGAGAATTT TAAGGAACTT GAACACCACC TTCAAATACA  
240051 TGCAAGGAAA AATGGGACTT TTGAACATTC AGTTAACTCC ATATAACAGA  
240101 ACCATCTAAT TTATAGATAA GCAACTTTTC TCTTTACCAA TTATAGTGGG  
240151 CCATCTGTCA AATATTATAG AGTACATGAG TATGTTGGAA GGAAATGTTG  
240201 ACAGTGACAA ATGTTTTTAA AAGGGAAAT TAATAGTGTA CACTACATTT  
240251 ATTTTATTAG TATCTCTAAT ATCAGATGGA AAAGAAAGGA GAATCAATGG  
240301 GCCCACTGAT GGCTTAGAAC TTATGTCTAT AAAATTTACT CATATTATTG  
240351 CATTAATATT TCAGAATTCA TAGTCTCAAA TAAATACAAA ATATAGAGAG  
240401 ACATATCAGG AAGTTTAGGT TACCTATGTA TAAATAATTA AATCTCTTTA  
240451 TTAAAAAGAA TACCAATACC AAATTTTATT TTATAAGGAG TCATCATGGC  
240501 ATAGTATGAA GAGCTGTGGG TTGACATCAG GCATACCCAA ATTTGAAACC  
240551 AGCTCTGCTA CTTACTCGCT ATTTTAACTT TAGCATGTTA TTTGGCCCTT  
240601 CTGGGTCATG GTTTAATCAT CTATAAAACA AGGATATAAT TCCTCTCTCT  
240651 AGGGTTATTA TACAGATTAA TAATAATGTT TATGTAGTAT ATAAAAAGAA  
240701 CCTCATACAT ATTTGATATT TAAAATGGCA ATTATTAATG TTATTATCTG  
240751 AAAAGGTTTT AACAAAGCAT CTACATAGAT GCAAAATGGTA AAGTGGAAAC  
240801 AATGTGACT TTGGAATCAG ACTGACCTAG CTTTGAAGGC TAGCATTGTC  
240851 ACTCACTAGC TGTACATCCA TAGTAACGTG ATTAACCAAG CTGAACCTCAG  
240901 ATTATCTGTA AAATAAAAAA ACTGCCTGGG CCAGGTGCAG TGGCTCACGC  
240951 CTTTAATTTCC AGCACTTTGG GAGGCCGAGG CCGGTGGATC ACAAGGTCAG  
241001 GAGTTCAAGA CTAGCCTGGC CAACATGGTG AAACCCCGTC TCTACTAAAA  
241051 ATACAAAAAA ATTAGCTGGG CATGGTGGCG CGTGCTGTA ATCCCAACTA  
241101 CTCGGGAGGC TGAGGCAGGA GAATTGCTTG AACCGGAGCC CAGGAGGCAG  
241151 AGGTTGCAGT GAGCTGAGAT TGCACGCTG CATTCCAGCC TGGGCTACAG  
241201 AGTGAGACTC CATCTCAAAA AAACAAACAA AAAAAACCCA AACTGCGCTG  
241251 TCTACTCCAC AAGTTCAAG TAGTAAATTA GGTCATGCTT ATTATTTTGT  
241301 TTTTATGAGT AGTCTGGTAT GTAGTAAAC CTCAGTGTTA ATTTCAATTT  
241351 ATTTCCCAA ATATATGAAC AGGCTGTACC CCACCTATGA CCTCTTAACA  
241401 TGTATTTTAC AGACTTACGT GGATTGGAAG TCCTGGCTGG GCTCCACAGT  
241451 CCCTGAGGGA AGGGAGAGCT TCCCTTTTTT GAACATCCAA ACCCCAGGGA

FIGURE 3QQQ

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241501 CTGATTCAACC TAACTGCTCT CTATTAGGCA ACCCTTGAAA GGAAACTTCT  
241551 GAGTTTTAGT AAATGAAGAG AGGACAGAGA CCCATCTCTT GTTTTATGCA  
241601 GAAGTAAAGA GTTTAAGTGA CTAATGTCCA GGCACACTTA CTGTAATTAC  
241651 TCCTCTCTAA ACCTTATGTA ATACTTCTAA AGCCCTACAT CTTTCAAGAG  
241701 GGTGTAGTGA TCAGAGGTAA GGTTTAAAGT CTACCACTTA GACCTGGTTT  
241751 TTAACCTCTC ATCAAAATAC CACAGTCTGC ATTGAGTGT CTGATCAGGC  
241801 TTGTTTCCTT ATTATTGAGG TAACTTACTT TGCTCTTCT CTGCACATTT  
241851 AACCATGGTG TTCTTTTAT TGAGAAAACC ACCCTTTTG GGCTCTTATA  
241901 TAAATTCAGA GCTATACTTC AAGTCACCCC AAGATCTGCC TTCTTTGTGA  
241951 CCTCTAGTGA TCCTTCTAAC CCATAGTGAT TTTTCCCTAC CTTGAGCTTT  
242001 CACAGCCCCA GTTCTTCCAT ATTTTGTGAC TTACTTTGTA TTTTGAGTTA  
242051 TTTTCTAATT ATTTTCATGTG TGTAACCTTAC TTTCCCAATA GAAATTTAAG  
242101 TCTTTGAAGA GAGGAAACTG TATTATTGGA TATTTTTTGT TTTTGAGACA  
242151 GAGTCTCGCC CTGTCAACCA GGCTGGCGTG CAGTGACAGC ATCTCGGCTC  
242201 ACTACAACCT CGGCTCTTG GGTCAAGTG ATTCTCTGCT CTCAGCCTCC  
242251 TGAGTAGCTG TGAATCCAGG CACCTGCCAC CAGGCCACG TAATTTTTTA  
242301 TTTTGTATT TTTAGTAGAG ATGGGGTTTC ACCATGTTGG CCAGGCTTTT  
242351 ATATCCCCCA CTATGTCTAG CAAAAAATGT AATTGTATAA TTATCTAATT  
242401 AAGATTTATT GAAATGCTTT AAGTTTTTAG ATTCTAATTG AAGTCTCTAT  
242451 GCCAATACTT TATTACTTTT TTTGGTTTCT TTGCCTTTGA GAATTTTCTT  
242501 AGCATTTTTA ATTTACTTCA ATAATTGAGC GATTATGACA GGAAATCATT  
242551 TCATGTAAAA AACAGACCAA GTATTCTGGT TCCTAGCCAG TTTTCTTTCA  
242601 TTTAGATATG ATGGTACTAA AGCAAACAAC AAATGACACC TCTACTTAAT  
242651 TAGTGATTCC GCTATTCTGA ATATATATTT CATGGCAATA AGAGTTTGT  
242701 GAAGTTTGAA GGCTTTTTTA CAGTCTCTAA AAAGACTTAA AATTAGTGT  
242751 TTCATTCAAG TTATAGATGG TTATAATCTC AGACAGCTGA GACTTTTCAT  
242801 TTTACCTTA AGGTTAATTT TATTTGGAGT GAACTGTAAA AAAAAAATAC  
242851 TTTGGCTTTA CAAAAATTC TTTTAGTGTA AAAATGACTG AAAATATTAT  
242901 TATTCCTTTT ATATGAAATG TCCAGCTAAG GAAAATTATA GAGAAAAAAG  
242951 GTAGATTATT AGTTGCCTTG GGCTAGAGTT AGGAGATGCC TTGGGGATTA  
243001 AGTATAAATG GACATGAGGC AACTTTTGGG TTAGTGAAAA TGTTCTAATA  
243051 CTACATTATG GTGGAGGTTG CACAATTTTG TATATTTCTT AAAAATFATT  
243101 GAATCGTATG CTTAAATAAT TCATGAATTT TGTGGTATGT AAATTATGTC  
243151 TTAATAAAGT TATTAATAAT AATTTATGAA ATTACAGGTT TAAATTTTAT  
243201 TTTATAATAA ACATAATAAA TTGTCTTAG TATCCATTTA TGAAAGTAAA  
243251 TATGTTGCTT GAAATTATTT CATTAGAAAA ACTATTGCTA CTCTTTAGTT  
243301 GTATGGCTAT CTGTAGGTCT TGTATGTGAT TTATTTATTA ATAAATTTAT  
243351 ATTGAACATA GTAGAATTTT TAAAAATATG GCTACTCATA TGTAAGGTT  
243401 ACTGGAATGG GACTGGCTTA TTTCTGACCT TTTTATATCC ATATAAATTC  
243451 GGATGATTTC TCATTGATAT TTATGATATT CTGCTCTGAA AATAATATAA  
243501 TCAATTACTT GCCTTTTTAA GTCAAGTATT CTACCCTAGT TGACTATAAA  
243551 GTGAATTTTT TCAAAGGAAG TCTTAAATTT TTCATATATC TCTTAAGATT  
243601 AAATTTGAGA GATGTTTACA TTGGGGGGAA AATCAAATTT AGTAAGCTGT  
243651 GAACTTTGGC AATGCAAGAT TGAACACTG CCTTAAATAT TTGTTAATAT  
243701 CTGCTCACTA TTCCATTAC ATAGCATAAG AATTTCCCTT ATGCCTGATA  
243751 TTTTGGCTT CATATTTTTA ATTTCTATTT CTGGATTTGT TTTCTTATGT  
243801 CCAATGGAGC ATTGATGCTG ATTTTCTTAC TTCATAAATA CATAGTATCT  
243851 GTGATGGTTA ATCTGAGTG TCAACTTGAT GGCAATGAAT GATGCAAGT  
243901 ATTGACCTG AGTGTGCTG TTAAGGTGTT GACAAAGGAG ATTAACATTT  
243951 GAGTCACTGG GCTGGAAAAG GCAGACCCAC CCTTAATCTG TGTGGGCACA  
244001 ATCTAATCAG CTTGAGACAC AGCCAGGATA TAAAGCAGGA AGAAAAACGT  
244051 GAAAAGGTTT GACTGGCTTA GCCTCCAGC CTACATCTTT CTCTCGTGCT  
244101 TTATGCTTCC TGCCCTCAA CACTGGACTC CAAGTCTTTC AGCTTTGGAA  
244151 CTGGAAGTGG CTTCTTTTGG CTCCTCAGAT TATGTGAGTT AATATTACTT  
244201 AATAAACTCC CCTTTATGTA TATATCTATC CTGTTAGTTC TGCCCTCTA  
244251 GTATCAATCA AAATTTGAAG TATCAATCAA AATTTGAAGC TACAAGAGAA  
244301 TTTAGAAATC ATCCAGTGCA ACTTATTAAA TTATACTTTT GATAGGGGAT  
244351 GCTAAATGGT TAGGGAACTT GTTTGGATCT GTGGATTTGG TTGGTTATAT  
244401 ACTCAGCTCT TAATTGCCAA GGAATAGTCA TGATGAACCA GCAGACTTTC  
244451 CTCACCTAGT TGGGGAGAAA AGAATTAGAT TAATTTTCGG TTCTTGAACT  
244501 TCTAGAATTC TATAAATCTA TCAACTGTAA CTATGTCAA TATAATGCTA  
244551 TGGATGTTAC TCTTCTTAAT TAACTATGTC TACCTTCACT TTCTCATAGT  
244601 CCAGCTATCA TTAATCTTGG ATTATAAGT ATGGATCCTA TCTGCTGGC  
244651 TCCCTGAAC TTTTATAGAA AGGAGTATAT ACTATATTAG TAAAAGCACA  
244701 CACTCTGGAT TTTAACTCCC TGGGTTTGGG TATTGGTTCT GCCACTCATT  
244751 TACACTGTGT CTTTGGACAG GTTATTATCC CCTCAATATG GGGAGAATAA  
244801 AATGCTTCAT AAACCTGGTGA GGATTAAATG AATTAATACA TGCTTGAAAT  
244851 AGTCCACTGA ATATAATAGG AACTCATAAT AAGATGAATA ATTAATATAA  
244901 CTCAAACCAA CTGGTTTCAG GGCCTTATAG TATATATAAG TATATCATTA  
244951 TATATTTATA TATTATATAT ATTTGATATA TATACTTACA TATAGATATC

FIGURE 3RRR

245001 TATATATAAT ATACTTATAT GTAGGTATCT ATATATATAG CTTTTTGGGG  
245051 GGTCCTGCTT AGCCTTTCTT TCTCCATAGG TTTAATTGTA GAGCTGTGTT  
245101 TCTTTTITTT GTTTGTTTGT TTGTTTITGA GACGGAGTCT CGCTCTGTG  
245151 CCCAGGCTGG AGTGCAGTGG CGCGATTTCC GCTCTCTGCA ACCTCCGCCT  
245201 CCTGTTTCA CGCCATTCTC CTTCCTCAGT CTCCCAAGTA GCTGGGAGTA  
245251 CAGGCGCCCG CCACCATGCC CAGCTAATTT TTTGTATTTT TAGTAGAGAC  
245301 GGGGTTTCAC CATGTTAGCC AGGATGGTCT CGCTCTCCTG ACCTCGTGAT  
245351 CCACCCACCT CGGCCTCCCA AAGTGCTGGG ATTACAGGCG TGAGCCACTG  
245401 TGCCCGGCCA CAGCTGTGTT TCTTAAACTT AAGTAATGAA TAAATGTATT  
245451 GTAAAGAAAA TACCTCAAAC TTCTATGAAT ATACCTACAA ATTCCAGTTG  
245501 AAGAATAACA TTAATTAAT GCTGCCACCT TCCATGGTAG CTTGGTTCCA  
245551 ACACAATCAG AAACCTCAAT GCAATTTTTG ATGTTGAAAT CAGGTAACCA  
245601 GTACTTTATT GTAAGATCTT CAGCTGATTG AGCATTTTAA TTTTGTAGG  
245651 TCATCATCAA AACAAAAACA GAAATTTTAA GCATATGAAA TATCTTGAGA  
245701 CTATTTTCAGC AGACCCTAGT TGAGAACTGT TGCTTCAAAA GTAAAAATAA  
245751 CACACCTATG CACACCAAAC TGATTGTTTT ATATTCAAAA CTCCAGTATC  
245801 ACTATTTGTT TTGATCAGTT GAAATTTACT AAGAGTAATA ACAGGCCTGC  
245851 TGCCAGTGGT GGTAGCAACT GAAGCTGATT TTTATCAGAT CAAGAGTGAG  
245901 CCAGGATAAT GCCAGTTTGG GGCCAGCTCT AGGTAGAAATG CTAAAAGTTG  
245951 TTGAGACTTC TGCTTCTCTT CTGTTACCTT ACTACATTCT GTCATCCTTC  
246001 CTCCTGTCTG TGCCCTTTGT CAGTGCCCTT ACCCCTAACCC CCAAAAGCTC  
246051 CTCACGTAGA TGCTTGACAT GTTACTTTTC CCAGCATATT TGTGTTTTAA  
246101 TAAAGCAAAT CTAAGTCCCT GAAATACCTC AAGACTTGTT AGAATCTCTT  
246151 AAAGTGAAAT TTCTAACACT CTGAGTTCAA TAAGAAGAAA TAAAGTACA  
246201 TATATTTTTT TATAATTTTT TATGTTTGCA AACCAAGAAA CATGCCATTT  
246251 CTCCTAGTAA AAATGGGGGA AGTGAGGACT ACTTTGCCCT TTCTCCTGGA  
246301 CAGAGTAGTC CTCATTTCCC CCTTTTTTCT TTATAAAAAG GAAATGATGA  
246351 TAAAAAATTG TTAATTGGAT ACCACTTCAA ATGGGGGATTA GTTATGCATA  
246401 GAATATTTCA GATATATTAG TATAGAAGTC ATTTAAGATA CAAGCATTTT  
246451 ATCCTTTTGT AAGTCTTTT GTCTAAAGTT TGTTAAGAGG AAAGCCAAAG  
246501 ATTATTTTGT TGTATACTAA AAGCTGTAAA TATTATTAAT TTATGTCCTA  
246551 TACTTCCCTA TGGAAAAGGG AAACCTCAGT TTACCATGAA CAGGATCCAT  
246601 TCTTTATATG AGTAGTTAGA AGCTAATTTG AGGTATTGTA GATTTAATTT  
246651 AGTCTCTGGT TATCATGTTT AGAATCTTAT GACATGATTT GTTTTAGAGA  
246701 AATAACCTCG GTACATTCTT GTACATTCTT TAGATGTCAG CTCGGTTAAC  
246751 TAGTGCTGTG CCTGAGTTGG TAAATGTCTA CTTAGATGCC AGTGATGCCA  
246801 ATAGAACTG TCGTGTGAGC TTATAACATT CTCAGAGGGT TGCACTTTCA  
246851 ATGCAGGTGG GGGGAAGGAC AAAGTAATAG CTCTCTGTG GGATTACAGT  
246901 AAGTGAGGGC TCAAGTGAAG ATCTCTTAGT TCCTTGAATG ATCCTTTAAA  
246951 AGGTAATAGT TTTCCATTTT TTTGCTTTCA GTTCTGTCAT ATGTAATGAA  
247001 AATAACGTGA ACTTAGAAAT ATGGGCTTAG TAAATCTTAA GTAAATTATG  
247051 TTCACATGCT ATAAGATTTT AATCAATGAG TTTCAAATGG GGAAGGGAAT  
247101 TTATATTTAA TACCAACCTA CGGCATGCCT ATATTTTAAA CTATTAATCA  
247151 TCCAGTAACC CTAAGCCTA GGAAGGATTA GTCCGAGGTA TTACAGTCTC  
247201 AAAGAGATAG AGCCTGGCTA TGCGCATTTG TCTGTCTGAT TATTTTTCAT  
247251 TTTCTCTTTT GTTTTGTTTT TTGTTTCTA GCCTAGGCAG AGTGCAGTGG  
247301 CATGATCTCA GCTCACTGCA ACCTCTGCTT CCCGGGCTTC AAGCAGTTCT  
247351 CTTGCTCAG CCTCCCAAGT AGCTGGGATT ACAGGCGTGT GCCACCATGC  
247401 CCAGCTAATT TTTTGTATT TTTAATAGAG ACGGGGTTTC ACCATATTGG  
247451 TCAGGCTGGT CTTGAACCTC TGACCTCAA TGATCCGTCC GCCTCTGCCT  
247501 CCCAAAGTGC TGGGATTACA GTTGTGAGCC ACCCGCCCGG GCCTGTCTA  
247551 TATTATTTTA AAACCTAAAC CCTTCTCTCT TAAACAAGCA GACATCTGTA  
247601 ATATATGTAA CCTAATTGTA AAATAGATAA ACGTAACAGA GAGTATGGTT  
247651 GGTATAGTTT CTGGTTAGTG CTAAATGATT GGAACAAAGA AAGGAGAGAT  
247701 TACTCTGGAC TGGAATGATC AAGAAAAGCT ATATAAGGAT ACAACTTGAG  
247751 GTGGACTGTG AACTCTGTGT AGAAACAGAG TTAGGGTTCC TTTTGGAGGT  
247801 TCTAACAAAT GTAATATTT TAGTAGTTAC AAGTAGAGCT CTGTCAATCC  
247851 CATCATCTAA TTATAATGTG CAAAGACTGA TTGCATGTAC TCTTTGACTA  
247901 CAGTCTCTGG CACTAATAAC CCTAAACAAA GCTGGAGGCG CTAATTACCT  
247951 CCTTTTCTTA ATCTGAATTT TGATGTGCTT TTGAAGTAT AAGTCTCTG  
248001 GCATTTCTAAG AAGACTTACC CCATCACTGG GGAGACATTT ACTTCAGCAT  
248051 TCAGAAAACT AGATTTTGA ATTAAGTTT TTTAGAGGAG TTTTTCACGC  
248101 AGTAGCACAA ATAAATTAAT CAGTGTCTTT ATTTTCTAT ACCCCTATCG  
248151 TCATTGCTG CATATAAGAA GGAGATAAGT ATAACAGTTT ACTCATGGGA  
248201 TATGTGTAAT TTTTGTATGA AAACATGGAG ACTATGAAAA GCATTCATTT  
248251 TGTCTCCTGG TTGTCAGATT CTGCTGTGTA CTGACAGTAT GATCCTATAT  
248301 CTTTAAAGT TGCTATTACC TGAGTTTCTT TTGGTAACAC TAAAGGTAGA  
248351 AAGAAAAAAA GTTAACTTAG GGTAAAGGCT ATTTGTTCCT TTTTCATTAA  
248401 AAAACAGGGA AATTCTTTT TGATTGGTGA CATCGTATTA ATATTTAGTC  
248451 TGATTTATTA GCATGAGGCA AACAGCTTTT TTCCCGAGG TGTTGACTTA

FIGURE 3SSS



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248501 GAGAATGTGG ACTTATATAA AAATAAAGAT AATTTAGTTT ATGATTTTTT  
248551 TTCTTTTTTC AAAATTCAGT TTCTTTCTTA ACTTTTTTGT GGACTTTTTT  
248601 TCACTTTTTA AAAAAACCGT TAGTTTTGTG ACTTGGGCAA CCTACTGGG  
248651 CTCAATTTTC TTATCCCTAA AATGGGGTTA TTAACCCACC TATTTAACAG  
248701 GGTGGTTGGT AGGATTAAT GAGATCATAT CTGTGGAATG ATTCAAACAG  
248751 TTAGAACGGT AACCTCATAGT TACTTAGTGA GTAAGTATTA GCTATTGTTT  
248801 TAAATAAAAC CAGTAGGATT TCAACCACAC TGGCAGGTGT GCCCAGCTCT  
248851 GCCCTTTGCT AGCTGTGTGA CCCTAAAAAT GTTACTTAGC CTCTTTGTAT  
248901 TTCAGTTTCC ATGTCTGGAA CACGGAAGTA ATACTGATGC CTCCCTTGTA  
248951 GATTTTTGTA ACAATTAAG CAGTTAATGC TTATAAAGT TCTCAGAACA  
249001 CCCTGGCACA TAGTAAGTCT GTTGTTATAA ATATTTTCAA CATTATGACT  
249051 GTTTTTGTCA GGATGGGTTT TTTTAAAGCA ATGCATAAAA GACTATAAAA  
249101 TATACATTTG TTCTATATAA TGGCCAACTA AGGAAACAAA AGCAGATAAG  
249151 GTAAAGCAC AAGAAATGAG GAAACAGAAA GAAGGCAAAAC AGGAATAGGC  
249201 AGAAGGATAA GTACTAAAA ACATACATAC ACTTCCAGGG AGAGAGGACA  
249251 GATCAGAAAG TTCTTCCTAT TTCTAAATTT TGTATTACAC CACACACACA  
249301 TGAAATGAAA TTCTAGACTA TAGTAAGTGA TCTTTGGGCT ATTTCTCTATA  
249351 TCATAGCATT TTCACATTGT ATTTTGTGTTG CTCAGTTAAT TATCCATCTT  
249401 CCCCTGCAAG CTCTTGAGGG TAAGAAACAT TATGCTTTGT TCATCTTTGG  
249451 AACCTACTAG TCTAGCATGT AGAAAGCTCT CAATATTTAA ATTGAATTTA  
249501 AAAATAGGGT TTTGCAATAC TAACCTGTAT TTTTCCATAA ATGCTTTTCT  
249551 AATATTTTCC ATAAATTTTC CACAAATATG CCTTGATATT TTATATATAT  
249601 ATAGGATTCC TTGACTGTGT GTGACGTAGT TTAATAATTT CTTTTTCTA  
249651 AAATTTTTAT TTTCTTTTAA ATTTGGAAGT CTCCATTCTT ATTTAAATTA  
249701 AGTGCTTATG CTATTTAATA TAATAACT TGTTACACCT TTAGGAAAAC  
249751 ATAGTTGTTT ACCATGCTTT ATATACCATG TGTGAACTTT TCTATATTTT  
249801 TTTCTTTTCA GAGTGTATTG TTCTTTTGT TTGTAAAGCA GCATACCTGA  
249851 TGCTGCAACC AGTGACTTTT TGCCATGCAT TCTTAATACT TCTTGAATA  
249901 TTTGGTTTAG GAAGTGGGGT AATTAGTACA TAAACACTGT TAGCAGAAC  
249951 TACCCTAATT AGTGCTTTT GGCCTGGCTT CAATGATAAA CAAAGTAAGA  
250001 TGTGTGTCAG CATTCACTCT AACACTTTAT AAAAATTGTT ATAGCCCTAT  
250051 GGGGCGACAT ACACAAGATA AGTTAAATAA TGTAGTAGTT GAGACCATGA  
250101 GAAGGAGTTT TGTCTGTCTA TTTAATAGTC TTTGCATGAT AAATTAGCTT  
250151 CCTAGCTTTG AAGGCTTCAT TAGTCTTAAT TATCCAGAAA GCATAAACTT  
250201 AGCCATCAAA GTGTATCCCT AATAACGTTT TACATCTTTA GTGAAATGTT  
250251 GCCTTTTTAA TCTGTACCTA AACCAATTTT ACTATCTTCC TATAATCTAT  
250301 AGGCGAAAAA GAGCATTAGC TTAGACCATC AAAATGAAAT GATTCAAGGA  
250351 CTGGGTTTCA AGGCAAAACA TTTCTCACCC ATTTTATGGG GCCTTTAGGA  
250401 AATTTTCTTT TATTAGTTC ACTGTTACTT AAGTCTGTTA TTTCAAGA  
250451 CCACTACTTC CTATTTTGA AGTATAAATA CTTTAAAGAT TTTCCATTA  
250501 AGATGTTGCT TTGTTGGTTT ACAATACTGG GACTACTATA TAGGAAACAGA  
250551 TCATTTTTTC TAGAGACAAG GAACAGAACT TTCTGCTAGA CAGCTCATTT  
250601 CTTAGAGACA CTCTAAGCTT AAAATTTGGG ACTCATTATG AAGTCTAGGT  
250651 ACAGTTTCTG AAGAATCTCA TCTGTATTAA GAACGTTGTT TTCAAAACCT  
250701 CTTTGTAAAT AATTTTCTTA CATTAAATCA CAAGGCCGAA AATGGAAAGT  
250751 AAATATGTAA AAATGTAGAA AACTTAAATA GGTAAATAAT TGTCAAAGAT  
250801 ATTGAATGG TAGTCAAAGC CCTCCCCAAA AACTAAACAT AAACACTTGA  
250851 ATAAACAGAC ACACTTTCTT AAGCCAAATA GATTTTATAG GACATTGTTA  
250901 CCAGATTTTC AGGGGATGTA ACTCCTGTCT CATATGGATG CTTTAAAAAT  
250951 AAAAAAAGC CAGGATACTA TCTGGCTAAT TTTGCAAGGC TTGTACAACC  
251001 CTAATTTCAA AAGATAGCAC AAGAACAGAA AAGTATAGGT CCACCACACT  
251051 TATCATTACA AGTGTGGGAA TTCTAAATCA AATTTAGTGA ATAAGTCCAA  
251101 TGGTTTTTTT TTTTTTTTTT TTTTTTTTTT GAGTGGGATT CTCACCTGT  
251151 CACCCAGGCT GGAGTGCAAT GGTGCAATCT CTGCTCACTG CAACCTCTGC  
251201 CTCCCAGGTT CAAATGATTG TTCTGCCTCA GCCTCCCGG TAGCTGGGCT  
251251 TACAGGCGCC CACCAACAGC CCCAGCTAAT TTTTGTATT TTAGTAGAGA  
251301 CAGGGTTTCA CCATGTTGGC CAGGCTGGTC TCAAACTCCT GACCTCATGA  
251351 TCCGCTGTG TCAGCCTCCC AAAGTGCTGG GATTATAGGC CTGTGCCACT  
251401 GCACCCAGCT GGTAAATTTT TAATATAGTA TTTTATCTAA GGAAGTTAAG  
251451 GATGGTTTAA CATTTAAAAA ATCAAAGAAA TTCACTATAT TAATGGTGAA  
251501 AATATGTAAT AGGCAAAAAA ATTATATAAT TGTCTAAAAG TATGCTTTGA  
251551 AAAGCATTTG ATAACTTTA ACTATATAAT TAAAAGTTTA GAAAATTAGG  
251601 AATAGAAGGA AACTTTACAA ACTAGTTATA TACAAAAGCC TACAACAAAT  
251651 ATCAATACCA AAGCTTTAAT CAAACTTTAT ACAAAGCAAG ACAATACAT  
251701 ATTCTTGATA TAGATCTGAC TAGTCCAATA AGAAAAAAA AGTGAATATA  
251751 AGGTGGACAG AGGAATGGTG GAGCAGAAAA GAGAACTAA AATAGATAAA  
251801 ATAGTCTTAA CTTGGAAGTT ATACATTGTC TATGTGGGCA AATTATTAGA  
251851 ACTAGAAGAA GCAAGCTATA TACTGTCAAT AGTTTCAAGC TATATACTTT  
251901 CAAGCAAGCT ATATACTTTG AGTATACTTT CAGTAGTTT GTTTTTCCAG  
251951 ATTTAGCAGT GACTACACTT CAAAATTCAC AGCAATTACA AAAAGTATAA

FIGURE 3TTT



252001 TGCATTTAAA CATTAACCTA ACAAAAAATT ATAATAGCTT TATGGAACAA  
252051 ATTACAGAAC TTTACTAAAG GACGTAAATG AAAACTTGGT TAAATGAAGA  
252101 GCTATAACAT GTCTATTGGT GGGGCACATA ACAACATAAA GATACCAATT  
252151 CTCCCCAAAT CCAATTCCAA TTAATAATTAT AATAAGACTT TTGGGGAGCC  
252201 TCAGTTAACT GACTCTGATG TAGAAAAAGT TTCTTAGATA GCTAAGTCTA  
252251 TTTTGAAATG TATCAGGAAG AGGGATGATT TTTTCAACC ACATTTTAAT  
252301 CCATATTTGT AAAAGTAATA TGGAACTGGC ATAGAAACAG ATGATTACAC  
252351 TAATGAAACA GAAGAGACAG GTCAAAAACA GAACCATGGT GGGGAAAAGG  
252401 AATGTTTGCT AGTAGGTTCT TGAAGACTGG TTTACAAAAT TTTAAAAATA  
252451 AAGTTGGGCC CCTACTTAC ATCACATACC ATGTGAATC CACAGAGAAC  
252501 AAGGACTTAA AAGTGACAGG TATAACCACA GAGCTAATAG AAGAAAATGT  
252551 AAGAGAATAT TTTTCTGATC TTTTTTAAA AAAAAATATA TATATATATA  
252601 TTATTTTGAG ACACAGTCTT GCTTTGTCAT CCAGGTTGGA GTGCAGTGGC  
252651 ACGATCACGG CTCACTGCAC CCTCAACCTC CTGGGCCCAA GCAATCCTCC  
252701 CACCTCATCC CCCTCAGGTA GCTGGGACAA CAGCTGCATG CCACCATGCT  
252751 TGGCTGATTT TTGTAGAGAT GGGGTTTCAC CATTTTGCCC AGGCTGGTCT  
252801 TGAACCTCTG GGGTCAGGCA AGCCATCATG CCCAGCCTAT TTTCTAATCT  
252851 TGATATGAGG AAGAACTTCT TAAACCCTAC TGCAAAAGCA CAAACTATCA  
252901 GGGATACATT TTTTTTGTCT TTACATTGTC AAAACTAAAG ATTTTTGTTC  
252951 AATGATTAAA GAGTAAAAAA ATTAACAGAA TAGTGACAGA TTGGAAGAAG  
253001 ATATCTGCAG TGTCATAAGC AGACGAGATA AATATGTAGA CCATAAGAAA  
253051 AATGCTTTCA AATCAAGAAG AAACCAATAT ATACAAAAGC AAAAGTTGTT  
253101 ACTAGACAAT TCATGGAAGG GACTCCTTAC TGTCTAAGTG TATAAAGAGA  
253151 GATGTTCAAC CTTATGAGGA ATTAGAGAAA TGCTAATTGA AACACATAC  
253201 CACTTCCCAT CTATTTGGGA AGAAGTTTTT GAAAAATCAG TTGGTAAATC  
253251 AAAATATAGG TGAGGATTTG GGGTAATGAG GACATTATG CACTGCTGGT  
253301 TGAAATGCAG GCTGACACAG CTGTTCTGAA GAGCAATGTC ACAGTCCCTT  
253351 GTAAAAGTAA ATATGTTTAT AACTTGTAC CCAGAAGTGC CATTTGCTGT  
253401 ACATATTCTA TTGAAACACA TTTGAGCTTG ATAATGTTGT GTATCCAGG  
253451 ATGTTTACTG TGGAAGTGT TCTGGTAGTG TGGGGTTGAG GACAACTTAA  
253501 GTGTCCATCA CTATGAGAAT GGTCAAGTAA AATGCAACGG ATGCATCCTG  
253551 TGGAACTGTC TGTAACAGAG CAATAAAATA AATGTTTCAAG CAATGCCCTC  
253601 CAGCCAGAGA CTCCTGGGAA CATACACCTG GAGTGGAAAC AGTTGGGTTT  
253651 ATTCCTCCTT GTATGGAGGG GTAATGCACA CCTTGACAG CTGGGAGTGT  
253701 CTTAGCAAGA GGATGTTAGG AGGGAATTAT AAGAGCTGAG CTTGTATGAG  
253751 ATGATATGGG GGAGAGCTTA AGAAAGTGGG CATTGTACTG GATTGCTTAC  
253801 TTTGAGGAGG CAGAGACAAC GCCATGATTG ATTATCTTAA TTAATCATC  
253851 TGTAAGGAGG GAAGAATTGA GTGAAGCTAA TGGTGTAGTT GGTGAAGAAG  
253901 CAGTCACTCT TACTAGCTGG AACTGGGAAT ATATGTTTAT TTTGTGGCTT  
253951 GGAGAGTGT CATATTTTGT CCATACCTGA ATATGCAGCG GTCTTGTTTT  
254001 TGTCTTGATC TGTTACTGTC ACAGAGTGGC CTCGTCTAAT GTTGCTGTTT  
254051 TGTGAAATTG TTTATGTTCA ACAGAATACC AAGTGAGTCT CAGACCAGCT  
254101 CATGATAACA TTAAGGCCAT GCTAGTAATA CAATACCAGA GCAGCTCTCA  
254151 AATATCCCTT CTGTTTTTCA GTACTACAAC AATACACAAG ATCTTAAAAA  
254201 TGTAGTAGTG ATTATTAATA AGGGCTTACA GCAAGACCTA TAACATAATA  
254251 TTATTTATAT AAATTACAGA CATAATAAAT AAAACAGTAG TATGTATTAT  
254301 TCAAGGATGA ATATATGTAT ACAAGACCTT ATACCAAATA CAAGGGTTTT  
254351 CATCTCTAGT GTGGTCCGAG GGAAGGGGCC AGTAGCCAAT ATTGGGGGTG  
254401 AAAGGAAATA TTAAATAAGA GAAGAGCCTT GTATGGACCA ATGTGATAGT  
254451 GTGCTATGTA GATTGAAAAC TATGATAATT CATTTTCAGC AGCTAAAGTC  
254501 TTAACAACAAG TCTACACTTC TGCAAGAAAAG TGGTAAGGGA AAGAGTGGGA  
254551 GAGGACCTGT AGCCCCAGCAT CTTATCTATA TTTACTACTC TTGCCTTGTG  
254601 GGAGGTGGGG GAAGGGGGAG GAGGAGGAAT ACCTTCTTTA AGCTTTTCTT  
254651 AAATGCTTTA CATTTCCCCC AAAAGGAATG AGCTGTTGTA ATGATAGCAT  
254701 GTTGATGCTG GTTAAATAAA AACATGCCCA CCAGTGTAAT ATGATAGCAT  
254751 TAATATTCTT TGTGGGAAT TGATTTAGCT TTAATGTAC CCAAAAGCTT  
254801 TCGAAGTACA AAAGCCCTCA TATTAGCTCC AGAGAAACCA AGTTTATTAT  
254851 ATCTTAAGGA AAAGATTTCT TCATGAACCT TAAATTTAGT GTCTGTGTAA  
254901 TCATGTTATT TTGTCAATTA CTTTTTAACT GTAGAAAAGA GCTTGATTTG  
254951 ATTTTTTTTT TTTTTTTTTT GAGACGGAGT CTTACTCTGT CACCAGGCTG  
255001 GAGTGCAGTG GCACGGTCTC GGCTCACTGC AGCCTCCGCC TCCAGGTTT  
255051 AAGCAATTCT CCTGCCTCAG CCTCCCGAGT AGCTGGGACT ACAGGCGTGC  
255101 ACCACCATGC ACAGCTAATT TTTGTATTTT TAGTAGAGAC GGGGTTTCAC  
255151 CGTGTGGCT GGGATGGTCT CAATCTCTTG ACCTTGTTGAT CCACCCAAAG  
255201 TGCTCTGATT TGGGAGACCT TGGCCTCCCA AAGTGCTGGG ATTACAGGCG  
255251 TGAGGACACCG TGCTGGCCAG ACCTTGATTT TTTAGGAGT AAAGAGACTT  
255301 CCTACCTCCA CTCTAGTCTT CTTATCAGTG ATTTCTTTTT AAAAAAGTAA  
255351 ATGTCCTTGT GTCTTCACTT CATCTTCTT AATAAGTATT TAGAGGCAGT  
255401 ATTTTCGATA TTAACAGCAT AGATTCTTTA ATTTAGGAAA GAAGAAAAC  
255451 TAATTTTGAT TTTTCTAACT TTCTGCTCAG CTCTTCCAAC GTGAATATGT

FIGURE 3UUU

255501 AGGTCCTCTGT CTCOCGGGGT CCTCATTATG CTTTACTTTTG CCCTTTCCAG  
255551 TGCCCTTTTCC AGTGTTTTCAA CCACATTGAG CCGCATGGCC GCATAGGGGA  
255601 CTATGAAGAT CAGCTCATGC ATTTGTGAAG CACTGCCTCC TTGTGTCTTA  
255651 CTGTTCTCTTT TCTTAATTGG CTGTGTTCTG GAATGGTGTC TTGGTGTAT  
255701 GTTTTAAAC ATTATTTTGC GTAATTTATG TCATTTTATA GTCAGCCAGG  
255751 AGAAAGTACA CTACATTAGT TTTATGTCAT CAAATTGTTT AATCATCTCT  
255801 ATAATTTTACA TGAATCTTCA TTAATAATAC AGGAGGAAAT ACAAGACTCT  
255851 TTCTATAAAG CTTTGAAGAT GCTGAGTTTT TTTGAAATAG ATTTAGAGGG  
255901 TACAAATGCA CTTGTTTACAT GGCTATACTC TAGTGGTAAA GTCTGGGCTT  
255951 TTAGTGTAAAC CATCACTGGA ATACTGTACC TTGAACCCAT TAGGTAATTT  
256001 CTCATCCCTT ACCCGTCTCC TTCTCTGCCA TCTTTCCAAG TCTCTGATGT  
256051 CTGTTATTCC ACTCTGTAGC CGACATTAAT TTTTAAGGAT AGTTACTCTT  
256101 TATATACTAC TTCTGTAAAT CCATAACAGA TCCCAGGTT TTTTCCTTGT  
256151 CTATTAGGAA CTGTTTAAAA AATTTTGTIT AAGAAACAAA TGTATCTCCA  
256201 TTCATATTCT TGAACAACAC TTCTAATTAA TGAATTACTC AGAAATTTTG  
256251 CTGATGAAAA CATGTTATGA AATCTGTATA TTGTATAAGA CCTTTGCTTC  
256301 CCTGAGAGAA ATCACTCCCA TTGTTTCTTC AGGAACTTAT TCTTTCAGAC  
256351 TTGCAGGTTT GAACCTCTGA AAATTTCTAT GTGTTTCTC TCTGAATATG  
256401 TAGAAATTC ATGTTTGTTC TATGTAGATA GGATTAAGAT GGAAGTGTGT  
256451 TCTAAAAATT GGGTTGTTT TTATAAATTG TCCAAATTTA CATTTTCCTA  
256501 AAAAAATAT TAAGAATGTT AGCTTGCAAC CTCTTTTAAA TCCATAATAT  
256551 GCTGACATAT TATCTTTGCA ATAAAGAATA TTGGAAAAAC AATACTGCTG  
256601 CAAGTGTACA AATGGTATTT AATTCACAT GCTCCTGTGC TTCCATCAGT  
256651 CCCTGCACAT AGGCTTCTCT ACTCCTGATT CTAAAGCTCA TTTACACTAA  
256701 AAAGGTTATT GAAAGGTAAT TGATCTGTTT TTGAGCTTAA GAAATAGAGC  
256751 TAATGGACAG TGTCACAATT GTACATGCAC ATGCAGCCCA TTTTCCATTC  
256801 CTAGATATAT CATTTACGTT TTCTACATCA CCTACACTCT TGGGTCCAGG  
256851 GTTATAGAGC ATAGTAAGAA GCCGAAAAGA ATGAATACCT TTTGAAGAAC  
256901 TATTTTCAAG CTAGTGTACC TAATTAGATG AGGACCATAG GCAGTTTTC  
256951 CTTTCAGTGC CAGCAATCTA GAAGGAGGAG TAGGATGGGA GCAGACAGGT  
257001 TGCCCTCCCA CCTGGATAAC TGAGTGTGGT TTTCTGCAGT TCTTAAATTT  
257051 GTCAGCTCAC ACATACTACT TACTTACTTA CTTACTTACT TACTTACTTA  
257101 CTTATATATG TCTGTAAGTA CGTGACAGAG TCTCACTGTG GCACCCAGGC  
257151 TGGAGTGCAG TATCATGATC TTGGCTTACT GTAACCTCTG CCTCCTGGGT  
257201 CCAAGTGATT CTTGATTCTC ATGCCTCAGT CTCCCAGGTA GCTGGCAATA  
257251 CAGGTGTGCA CAGTCACACC TGGCTAATTT ATTTTATTTT ATTTTATTTG  
257301 TATTTTAGTA GAGATAGAGT TTCACCATGT TGCCAGGCT GGTCTGGAAC  
257351 TCTTGAGCTC AGGCAGTCTG CCCACCTCAG CCTCCCAAAC TGCTGGGATT  
257401 ACAGGCGTGA GCCACTGCCC CCAACCAACT CACACATACT TTAAGTGGGA  
257451 CTTTATTTAA TATCTTCATA TCAGGATAG AACCTGATGT GGTTTTCCAT  
257501 ACATGTACAC ACACATAATA AATATCATCC CTTTGACAAT ACTATAAGAA  
257551 TTAGTGCTT TATCATTTGA TATTCTCTTA AAATCATTA CAGAAAATGT  
257601 GTTCTTTCTA GAGGAATTTT ATCAAAAAAT TTATAAGGTG TTTGAACATG  
257651 TGATTACAAA GGAAAGGGAA AGCTAATAAA GAACCTAGTA GTATAACCAT  
257701 GGCCAGGCAC AGTGACTCCT GCCTGTAATC CCCGACTTT AGGAGGCTGA  
257751 GGCGGGAAGA TCACTTGAGG TAAGGCATTG GAGACGAGCC TGGCCAACCT  
257801 GGTGAAATCT CATCTTTACT AAAAATACAA AAATTAGCTG GGCAATGGTG  
257851 CAAGTGCTCT TAATCCAGC TACTCGGCAG AGTGAGGCAC GAGAATCGCT  
257901 CGAAGCCAGG AGGCAGAGGT CACAGTAAGC CACGATCATG CCACTGCACT  
257951 CCAGCCTGGG CGACAGAGTG AGACTCTGTC TCAGAAAAAA CAACAACAAC  
258001 AACAAAATTT AGTATGTAAC TATTTATTTA GCTATTTTTC AGGCACATTT  
258051 TAGAACAAAA GTGATTTTTT TTCAAACCTC TTTACCTCT TTGGTGGTAG  
258101 GAGACAGATT TCATATTCAT AGAGGTCCAT ATGTGGTACA TATGTTACTT  
258151 AAAACTTGTG GTTGACACTG TAGTGGGAAG TAACAGTAGG GTCACTACTG  
258201 ATATCTAAAT CCCTGATGTT TCTAGTAGGT ATAACTAGA GTGTGATTTG  
258251 TTTTGTGAG GAGGGAATTA TATCTCTGTT AGGTAAGCTA AATTCTTATT  
258301 TTTGGCATT ATACTGTAAT TCTCTATCCT GATTCTTGTG TTTTGCACA  
258351 TTGTAGACAA ATATTAATAA TCCCCTTGA CATGATTCTA AATCAGAAAT  
258401 TCCTGAGAAT AGAGATGTTT AAAAGATGAA CTAAAGCTAC CTTAAACAT  
258451 TTCAGTATTT TGAAAGAGAA AAGGATATTG TATTTAATTC CTCCTTTATA  
258501 AAGAAGTTT AACTAACTT TAAAATTATT TTTTATTATC TGGTGTACCA  
258551 GGATTTGTTT GGTAATATTG TTTTGTITTT TAGGTCTCAT TCAGTATCTC  
258601 TGTTTTTTTG ATAAAAAAG GGTGAGCAAA CTTTCTCTGT AAAGGTCTGG  
258651 GTAGTAAATA TTTTAGGCTA TGCAGGCCAC ATATAATCTC TGTGGAATCT  
258701 CCTCTCTCAC CACCTCTAT ACTCTCTTCC TCCTCCCTCT CTTTTTTTTT  
258751 TTTTTTTTTT TTTTGTGAGA CGGAGTCTCA CTCTGTGCCC CAGGCTGGAG  
258801 TGCAGTGGCG CGATCTGGGC TCACTGCAAA CTCGCTCTCC CAGGTTGGCG  
258851 CCATTCTTCT GCCTCAGCCT CCAAGTAGG TGGGACTACA GGCACCCGCC  
258901 ACCGCGCCTG GCTAATTTTT TGTATTTTTA GTAGAGACGG GGTTCCTCTG  
258951 TGTTAGCCAG GATGGTCTCG ATCTCCTGAC CTCATGATCC GCCACCTTG

FIGURE 3VVV

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259001 GCCTCCCAAA GTGCTGGGAT TACAGGTGTG AGCCACTGCG CCTGGCCCTC  
259051 CTCCTCTATT TTTTITTTAC AGCCCTTTAA AAATGTAGAA GCTGGCCAAG  
259101 CACGGTGATT CACACATGGT CACACATGGT CTTTGGGAGG CAAGGTGGAC  
259151 AGATTGCTTG ATCCAGGAG CTCAAGACCA GCCTCGGCAA CATGGCAAAA  
259201 CCCTGTTTCT ACAAAAAAAT AAAAAAATTA GTTGGACATG GTCACATGCA  
259251 CCTGTAGTCC CAGCTACTCA GGAGGCTGAG GTGGGTGGAT TGCTTGAGCC  
259301 CATGGGATCA AGGCTGAGAT TGTGCCACTG CACTTCATCC TGGGTGGCAG  
259351 AGAGTCAGAC CCTGTCTCAA AGAAAATAGT AATAATAAAT AATAATAAAT  
259401 TAATAAAAAT GTAGAAATGA TTCCAAGCTA AAGTGCTCTA TGAAAATAGG  
259451 TTTGGCCAC TGGCTGTTTT GGGGCTAGT TCTAGACCAA GTTCTGCCCC  
259501 AAACATAATT TGTGCTTTGG GGTAGTTTGT ATAATTGGTT TTATCTTCTC  
259551 TGGCTATTTT TGGCTATTTA TCTAGTAGTC ACTTCATATG TGAAGAATTT  
259601 ATGAAATACC TATATATTTG CTTTGTGTTT CTAATTTTAG ATACACACTT  
259651 TACTACAGAA AATAATTTAG TCATGTTAAG TTTGATTAAT GCTAAGATTA  
259701 GTATCATCTG AGGTCAAGCT ATATGGCATG TGAATTCAGT GTCAGAAAGT  
259751 CTGAATTTGG GTCTTGATT TGCTACTTAC TAGACTCTCT GGTTCAGGT  
259801 AAGCTCTGAA ACTCTGAGTT TCTACTTCCT GTTCATCAA TTTGATGAAAT  
259851 GACACTAACT CTGCCTACCT CTTAAAATTC TTTAATTATT TTTTAATTGA  
259901 AATGTGAAAC TAAGATACCG TTATAAAGCA CAAAACATTA AATCATCATT  
259951 AGGAGTCATT CTTTAAACT ACATGTTTTT ATAACCTGAAT TTCCCTTAT  
260001 AAATTTTATT ATGGAGAAAA AATTTTAATT TAAAAACCAC TAACTAGTAA  
260051 GGCCAATAAT TCTTCATAGT ATAGCATCTG GCAAATAGAC ACTCAGTGGC  
260101 TAGTTATCTA AGGTAAGTCA GTAGCTTTTC CAACTAGAAC TTATACCTAG  
260151 GTTTTAATTA TATTGTTTCT TTCTAACTAA CCCAATGGTA TCAAATGCTC  
260201 TCTGGAATAT AGATAATGAA GCTCTTAACA TAGTGCCCTC CACATAGTAG  
260251 GCACCTAGAA ATTTGCTGAC TAATTCATAG ACTTCCATCT GCCTAGGTAT  
260301 TAGATGTTTC CATTACCTC TCAGCTGTAA ATACTGCATT TTTTGTGCTT  
260351 AAAGTATAAA ACTGTTGTCT TTCTTCTTA GTTTGCATTT GCTCCATTCC  
260401 CTCAGTAGTT CTCTTTATCT CCTTTGTCAG TGACAGAAGA ATAAAAAGAA  
260451 AAATATTCCC TGGGGACTGG ATAGGTTCTG TCCAATTGAA AGATAGTTAA  
260501 TTCCCACTTT ACTTTTTTCT TGACCTTCT TCCCTCAGTT AGTTATTTCC  
260551 AACAAAAGCC ACTTGAAACC AAATTTTATA TAATAAAAGC TGTGCTTTGG  
260601 CTAGTGGTAG CTCATCTGTT GGGGAGAAGG AAGCAAAGAA GGAAGCTCCC  
260651 TAGAAATCTA AGATGGATTT TTCAGTTTTA TTTGGTTTTG CGTTATACAC  
260701 AGTTTAAAGG GGGGAAGAAA CAGAAATAAC TTAGTACAGT ACTTTCCAAA  
260751 TCTAGCTGTA CATCAGAATC ACCAGATAAG CTTTGAAAAA CCAAGGATTT  
260801 CCTGGCCATG AACAGACTT ATTAATTCAG AATCTTGGAG GGGGTCAGAG  
260851 CTATCAATCT ATAATTTTCT AAGATTCAGC CAGGTTTGAG AACCAAGTCAG  
260901 TACCATTGGT TTTAGAGTAA GACAGATGTG AGTTTGAAAT CTGGTTCTGT  
260951 TACTTACTAC CTGTATGAAT TTCAGCAATT TATTTAACCA CCGTTCAAAA  
261001 AAGTAAAGGT AATACAGGTA GTAAAGCTTC ATTTTATTGA GGTATTTTGA  
261051 GATTAAATGA AATAATATAA CATGTAATG CTTGCTACAT AACAACTACT  
261101 CAGTAAATCA TTGTTTATTG TTTTACATGA TTGATTATC ATTTTCTGAC  
261151 AGATGGTATT TCCTTAGGAA AAAAGTTAGA CTAAATTTAA ATTTTAAATA  
261201 GAATTCCTTA AAATAGAACG TGAATAAAAG TTTATTTTAT GACAGTCTCA  
261251 AATTAGTTAT GCTACATGTG CATTATCAGC ATTTTATTAA TAGAAATATG  
261301 CAGGTATAGA GTATTCACTC TGATGTTTTT TTACAAGACT TGACACTTTT  
261351 TAGAGATTAT TGTACATGTT GCACATAGGC CAAGATGATA GTCACATTCA  
261401 TTTGGCAAAA ACTATTTAGA TTTCTAATCT AACACAATAA AAGAAAAATG  
261451 GAAAAGAAAG AGTATAAAAT TTTTTTATGT TGGCTGCTTG ATTTACATGA  
261501 GGCCCAACCT GGTTTTTCTT GTTTGTTAGT TTTGTTTTTT TGAGATAGGG  
261551 TCTGGCTCTG TCACACAGGC TGGGATGTGG TGGCATGATC TCAGCTCACT  
261601 GCAGCCTCCA CTCCCAGAC TCAAGCCATC CCCCCACCC AGCCTCCTGA  
261651 ATAGCTGGGA CTACAGACAT TCACCACCAT GCCCAGCTTG CTTATTTATT  
261701 CATTCAATCA TTCATTCAAT CATTCAATCA TTCATTTATG GTAGAGATGG  
261751 GGTCTTGCCA TGTGCCCCAG ACTGGTCTTG AACTCCTGGG CTCAAGTGAT  
261801 CCTCCCAACT TGGCTTCCCA AAGTGTGGGG ATTATAGGCG TGAGCCACCA  
261851 TACTTGCCCC CGACCTGATT TTTTTTTTAA ACTAAAGCCA TAACTAAGTA  
261901 AAGGGAAGCT GGTGTATGTA AAAATATGAG ATATACATGT TGATTTTAGC  
261951 GAACATTTAG GTTCTCTGTA AAATCTGATA TCAAATAACT CTACCTGAAA  
262001 CAAATGATAC TGGTCTGTTT TGTGTTAAAA TAAGTATCTA TACACACTAC  
262051 TATGATTTTG GCATCTAAG TATTCTGAGA TCTTTTAAAA ATATTTTATA  
262101 GACTTTTATG TTTGTACATA TTTTGAGAAA ATAAGTCTGA TTTGTTTCA  
262151 TGTTCACCTC CTCATACTTT TCTAAAGTGC TGTCCGACTT AAGAAGAAAA  
262201 ATCTTTTGCC CAATGTTTTG GAATGTTTCT ATGATATTTT TGCCAGTTAT  
262251 ATATATAAAG TGCATTCCTT TTAGTAAGGT CCAGCATGAT CATTTCTTTT  
262301 TTTTTTTTTT TTTTTTTTTT TTTGAGCGGA GTCTCGCTCT GTCGCCCCAGG  
262351 CTGGAGTGCA GTGGCGGGAT CTGGGCTCAC TGCAAGCTCC GCCTCCCGGG  
262401 TTCACGCCAT TCTCCTGCCT CAGCCTCCCA AGTAGCTGGG ACTACAGGCG  
262451 CCGCCCACTA CGCCCGGCTA ATTTTTTGTA TTTTATAGTAG AGACGGGGTT

FIGURE 3WWW

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262501 TCACCGTTTT AGCCGGGATG GTCTCGATCT CCTGACCTCG TGATCCGCCC  
262551 GCCTAGGCCT CCCAAAGTGC TGGGATTACA GGGGTGAGCC ACCGCGCCCG  
262601 GCCCCAGCAT GATCATTTCT AAAGTGAAAA TAAACAGTGA AAAGCCATTA  
262651 GTAACCTGCC AATAATGTTG ATTCTTTGGT TAGCGTGATA AATCAAATTT  
262701 CCCAGAGGCA GTCACATAAA TTATAGCATT ATGTTGCTAA GATGAATTTG  
262751 GCCAAATTAT GCTTCATTTG TAGCAGAGTC AATCTTAAAA CTCAGGTCCTC  
262801 GTAACCTGCT GCCAAGACTA TCCCTTTATT TTGTAGGTGA AACCTAGGCA  
262851 AAGCCAATTT GGTGCTCACT CACCCCTTCC CAGAAATGAA GTTGGTTGAT  
262901 GGCTCTTTTG AAAGTATTAA GTTCAGGTAT CTGAAAAATT GGAGGAATAT  
262951 TAGTAATAGT TAACCTTTAG CTACTGAGTT GGTGCTGTAC CTGTTTATCT  
263001 CGTTTAAATTT TTATTCTATC TCATATGAGG TAGATGTTGT TATGCCCATTT  
263051 TTAGTGTTTT TTATTATCTA TCTAGTATTC AAAGGTTTCT AACATCAAAA  
263101 AAGTCATAAT AACTGTTACA ATAGCTACTG TAGATCCTTA TTTTGTACAC  
263151 TACCCCTTAC TCTGTTTTAC ATATCATTTT ATTTGTCTAG CAACTCTGTG  
263201 AGAGTCTAAG TATGAATGTC TACATTTTAA ATATGTACCA CCTTACACTA  
263251 AATAGGTTGA AGTAATTTTG CCCAAACTCA CACAGCTAAT AGCTGAAATA  
263301 AGTGAAGTTT TAACTCAGGT CTGATTTCAA ATTTTCAATTC TTTCTGTCTA  
263351 CTTTATCTTA CTTACACATAT ATAATTTTAC CTCTTACCAA AATAAGACTA  
263401 GTGTTACCTA GGAAGTGGGG TAGGCATGAT AGATATGTTT TTTTCTTATA  
263451 CATGAAAGGAG TTCTTATGAT TCTCACGCTC TGATTTTCTA AACTAAAAAT  
263501 ATGTTCTCTGT TCCATTGTTA TCAAAATGTA AAAATCAGTT AAGTACCACA  
263551 ATATATGGGG GCTTTAAAAA GTTACTTAGA AAATATGCAT TGTACAGTGA  
263601 GCCGAGATCG CGCCACTGCA CTCCAGCCTG AGCAACAGAG CGAGACTCCG  
263651 TCTAAAAAAA AAAAAGAAAG AAAGAAAAA TGCAATGTAT TGATGTTTCT  
263701 AATTATTAGA AATCTCCAC TATGTTTCAA GGGGACTTTT GTTAGGTCAA  
263751 GTTGAACAT GGATATTTAC GGACTATATC ATGGTGTAC ATAGGTAATT  
263801 ATTTGTTTTT TTTGAAGCTA AACGAAATTA CAACAGTATA TCATTCAAAG  
263851 TGCTAAGCTT TGGATCATAA GTAGTTAATC TGATTAACA GCTTAGTCAT  
263901 GCATTCATGA TAAGGATATA ATGACAAAAA TTCTATAGGT TTTAATAATA  
263951 ATATCTTAGT CTAGGAATTC TGGCATAAGA ATTATTTTGG AAATAGATCA  
264001 TTTATGTGTT TCTGTTTTCG TTTACAACTG AAAATAGTGT AGTAATATTG  
264051 ATTCATCTAA TATGAATATT ATGACTACAG AATAATTAGA ATCCCAGCAA  
264101 TGGAAAGTTT GAATAAAAA TATTAAGTGT AAAAGTTTAA CTTCCTAAGA  
264151 TAGTGCCCTT TCAGAATGAG GCAATTTGAC ATCATTGTTT TTGCCTAAGA  
264201 CAGCTTTTAG AGTTTAGTCT AGAAGTTGTT CAAATAGAAG TTGGTGACAC  
264251 GTTGAAGCTG AATGCCCTCT TTTCTTAAAA GGTAGGAAAT GCTCTTCTCA  
264301 TTTGTAGTTT TTAGTTTTCT ACAGTCTAAT AATCTTATAA AAGGTACATC  
264351 GTTTTAAAT TGAAATGTAG TTGGAATGTC TTATTGAATG TCTTCAGTGA  
264401 TGACTCTCTG TTTCTAAGG TTTTATTTT GAAAAATATG ACTTTTAGGG  
264451 TCATAAAAGG AAAAAATAAA AACTGTATAT ACAGTTTTGT GATAAAAGAA  
264501 CTGAATATAT ATGAGGTTGG TGGTGTGCAG TGTAAAGCTG GCGGGTGGGG  
264551 AGGGTTGTTT CTAAGAAGTT ACCTTAATTA AAAAGAGAAT ACCCTATTCA  
264601 TTGGCCATTG AAAGTGGGAA TATAGATATG TGGGGTGGAG AGGGGGACAG  
264651 CTTTGTACCT GCAAAGCTCT AATGAATGCC ACTACATGTT GGAGCTTGAG  
264701 AACTCACTGA GCTACCCAAA AGACTAGTTT GTCATTGCAG TGGCTCCTAG  
264751 ACATTGCTTT ACCAGGAAAG AAAAGAGGAA AGAGGATGAG CCTAGATACA  
264801 AAGGGGAAAG CTTGGGAAAA AGAAACTACA TCCATGATTT TTATAGTGCC  
264851 TCTTTTGTTA CTATTGTTTT GTAAATAAAA TAGGTAGCAA ATCCAGTCAT  
264901 TCAAAATTAT AAATAACCAC TAAAGGGAGA AGTCAATGCT CACTTTAGCT  
264951 TGGTTTCTGC TGTTGTTCTT TATGGTGTGC ATTTGTGTTT ACGGTACTCT  
265001 CCGAAATAGC TCTTCACAGC TACTTTATGT ATAAGCTCTT TGTCACATCT  
265051 AATGGAACCT TTTTGAAGTT GTTTGCATCA ACTTGAATCT TTAGTTGTTT  
265101 CCTAAGTTCA TTCTGGAATG GCTGAAACCA CTTATAAAGA AGAAAGTATT  
265151 AAGGGCATTG AGTTACCCAA CGTATTAGTT GTTATCGCTG AATTCTACTT  
265201 TTAACCAGGA ATATACTTTG GTCTTCGTTT AAAAGCATAT CATTTTTTTG  
265251 TAATTAAAAAT ATATATGGAG ACAATATAGT CTTTAATTTA GTTATTAAGA  
265301 ATATTGTTAT TCTGTTTGAA ACTTGGAAAT TCTGACATCA AAATTATATT  
265351 TATTACTGAT TAGACATAAT TGTATCATTT GGTATTTTTT ATATCTAAGC  
265401 TAAAGTGATC CTCTCTAATC CTTTATACTC TAGGTTTTTT TTGTAAGGAT  
265451 ATAATGCCAA AAATTTTGAA AAAAAGAAAA CAGGCACTGT GGCTCACACC  
265501 TGTAATCCCT GCACCTTTGG AGGCTGAGGT GGGAGAATCT CTTGAACCAA  
265551 GGAGTTCAAG ACCAGCCTGG GCAACATGGC AAAACCCCAT CTGTCCAAAA  
265601 AATACAAAAA TTAGCTGGGT ATAGTGGCAC ATGCTTGTAG TCCCAGCTAC  
265651 TCTGCAGGCT GAGGCAGGAG GATCACTTGA GCACTGGGGA GGTTGAGGCT  
265701 GCAGTGAGCC ATGATCATAC CACTGTACTT TAGCCTAGGT GACAGAGTGA  
265751 GGCCCTATCT CAAAAAATAA AAAAAGACTG AACTTTAGTC TTTTAATGTT  
265801 ATATTTCTGG ATTTAAATAA AAACAGAAGA AAGATAATGA AGTGTGCTCT  
265851 TTCATTCTTA ATCTTTCATT TTTATTCTTA TCATTAAACA TATGGAACAC  
265901 ATCTTAGGTA GACCATATAT ATTTTTATAA TTCTATATTT TGTAAAGAT  
265951 TTATATATTT TAGTATTGCC TCCTTAATAG ATGCATTCTT ACAAAGTTTG

FIGURE 3XXX

266001 TTCTGTAAGA ACTTCTATT TATTGTAGTG ATTTTTTCCC AGTGATTTTC  
266051 ATTATAATAT TAAAACTATA AGCCATTTTT CTACTTTTGA CATCTAAATG  
266101 TCATAAAACC TTATTTGCTT GTAAATATCT ATATTCTTAA AAGTAGTATA  
266151 TCTTCCATAA AATATTAACA GTAACCTGAA ATATTAATAA CATTTCTGCA  
266201 GTGTACCTTA AAGAACAACC AGAATCTTTG ACTAGAAGGA GGCTCATTCT  
266251 CATTTTCTT CACAAACTGT TCGTCGATCA TAGAGCAATC ACATAAGCTT  
266301 AGTGATTAGA CTACACTTGT TTTTGTCTAG TGTGGAACCTA CATTATTGCT  
266351 TCAAAATTTAT TTCCAAGTTA GCAATATTTT CCCCGTAGCT TTTTCTTTT  
266401 CTTGAGATGT ACTGATCTTT TCCAAAAGTC TTGATTGACA TCACCTCTGT  
266451 TTTAAATGTC TGATCATAAA AGATGATTAT TGTTTTAAATG TTTGTTTTAT  
266501 CTATTATAAA TAGGATTAAT CATAAAAGGA TAGAATCATG AAGGCATCAT  
266551 TTGGTAGGTA GACGTCCTAA TAGTATTGGT TTATTGGGCC CGAGAATTCT  
266601 ATAAATATGC TAGTCATTGT AGGGTAATGT TGAAGCAGTT GTCAAAGTCA  
266651 TTAACCTTAC AAGTTTATCA AGTGAATTTT TTTTGATTAT TTCTAAATGC  
266701 ATTTTCTTCT TAGTACCCAA ATTTCTCACA ATTGAAAAGC AACTGGGTGT  
266751 TGGGACAGAA ATATAGTATT TGGACATTAG AGGGTCTGGC CTTGACATTT  
266801 GATGCTACTA CTTAACTGGC TCTTATCTAA AACTGGTATC CTAAGGCCT  
266851 TAATTTCTTA GTGCCAGTGC TGTCTGTCTA TCTCGCAGGT TCATTATAAG  
266901 TATATGAGGT AATATGTGTG CAACAGGAAA GAACCTGGCC AAAATGTTAG  
266951 TGTGTCTGGG ATTAAGAAAC CCGTCTCTGC GGCATTTCTT CTTTGATATT  
267001 TCCCTGCCTT TTATAGGAAC TCTTTTTCAC CTAAGATTTT CCATTTATGT  
267051 TTTGTTTATT CTTTATCATC TGCTCAGAGT TGTAAGTTTA CCACAAGTGG  
267101 AGACCTGGGA TGTACACCCA GGGACCAGAG TCACCCCATTA ACTCATTTTC  
267151 TCATAAATTG TTTCTAGAG AAGCCTCCTT TTTTCTAGT AGCCCTTTGG  
267201 ATGCCCTTTT TCTTTCTTTT TTTTAAATTT GACTTTTCCA ACGTAGTTGA  
267251 AACACAGAAT CTCGGTTAAC CCTCAATGTA CACTGGTCTT AATCAGATCA  
267301 AGTTTTTAAC CACAAGGTAA AATGTTTCAC TTTGCTCATG AATCTTAAGA  
267351 ATGGGCCATC CAGAGTGGCT GTACCCAGAA CAACAGGTTT ACTGTTGTTT  
267401 GTTTCACTCC AGTTCCCTGA CTTTGACTGC TCTCTTTGAG TATTGCCTTA  
267451 GCTTTCAATTT CTAATCTGTG AAAAGATGCC TTCCATTTGC CTACAGCCAC  
267501 TTTTGCATAG ATTAATTGTA CTAGTTTAGT CTGAGTTAAT TTTAATTTAA  
267551 TCCATTTGCT AAGGTCATTT GCTTTTTTTT TTTTTTTTTT TTTTTTTTGG  
267601 AGACAGGGTG TTGCTGTAC CCAGGCTGGA GTGCAGTGGC AAGATCATGG  
267651 CTCACCTGAC CCGGGTTCA GGTGATCATC CCACCTCAGC TTCCCAAGTA  
267701 GCTGGAACCA CAGGCGTGCA CCACACCTGG CTAATTTATT TTTTTTAAGA  
267751 GACAGGGTCT CCCTATGTTG CCCAGGCTGG TCTTGAACCT CTGGAATCAA  
267801 TTGATCCTCC CACTGCAGCC TCCCAAAGTG CTGGGATTAC AGGTGTGAGA  
267851 CACCACGCC AGCTTCATTT GAATATTGGA AATACACTGT TCCTAAGTAA  
267901 TGGTCCCTGGG AACCTTACAA CAATACTGTG ACTATTCTCT TTTCAAAAAT  
267951 GTGTATCGGC TTAATATTTT AAGAGATGGG AAAGAGAAGT TCCTGATGAC  
268001 ATTGTATGCA CCACGGTAGC AGGTGATGTG GTGACTGTAT CTCTGTTTAG  
268051 GTAATAACAC TTTTGGCCTC ATACTAGCGT TTGAATTAGT TCCGGAACA  
268101 TATGTGTAC ATTTGTTTC ATCAGCTTTC CATCTCAGCA TTAATGATCA  
268151 AGGCAAAAAA TAAAGCAGTG TGCTTTTGT ATCTAACCTC ATCTGATTTT  
268201 ATGGTTGTGG TGAGATTGCA CAGAGATGAA TAGAGGACTT TGAAGTATCA  
268251 CTTTCTAGT TAGATTTTCA TCTTCTCTGT GCATATTTAA TCGAGCCAGA  
268301 AGAATGAGAA AGGCCTGAAG GGTACCTCTA TCTTCTCTTC CTACTTCAGT  
268351 GAAAGGACTT CCTCTAATAG ATTAATGGAC AGAGGTTAAT AATAAAGGTA  
268401 TTCACAGGAA TGAAGAAGA ATTGACTAAG ACAGAAGGAG ATTAGGTGCT  
268451 ACTATGGGGT AGGTTTATCA GAATTATGAC TTCCATAGTG TACTGTATAT  
268501 TGAGGCATTT CATTATTCAT ATTTTAAAC AAAACACTCT ATTTGGTTT  
268551 GTGAGTATTG TGAAGAATGT TATTAAGCCA GTTTGTAGGT AAACACTGCC  
268601 TCAGGTTTCA TCAAACTTGG CACTTAAAGT TAGGATTCAA CTCTTCACT  
268651 GCAGTATTAC AGAGGGGCTC CATCTATTTG TTACCTGAAA ATTGCCCTGA  
268701 ACAGTGTAGA GATTTTAAAA ACTACTTCCA AGCAAAACTT GCAGTGATGT  
268751 CACTCATTAC CCATTGCTCT AAGAAATGCC CTCATCTTGC TGTCTAGGAA  
268801 GCACTTTTCA TGGACTGCTA ACTTCTGTTA GAGCTGTATC AATTACAAGC  
268851 AGTTTGGCAG GGTAAATCTG ATATGTAAAG CTGGGGAGGA ACATTGTTTG  
268901 GTTAATTAAT TCATTGTTT AATTAAAAAG TGAAATTATA CTTTGATTCA  
268951 TATAAGTAT ACCATGTAGA AGAAATATAA ATCTGTGTTT AGATATTACT  
269001 GTCAAATATT ACCAATCTG AAATATAAGG ATATTCTCAT TCCTTCTCAT  
269051 ATTCTATGA GAAGGAATGT CATAGCTGGT TTAGGTAAAG AAATTGAGCA  
269101 TATGCAGCTA AACCCACTCT GGACTCTTTT TTTTCTTTGG CAACTACCTA  
269151 GACGCACAGT GGTTCATAG TGCCCTGCTT ACCATGCTAT AAGCTTAGGG  
269201 AAGGCTTTGC TCCGAAAAAG GAACCTGTAA TTAGCTCATG TGAGTGAGTA  
269251 GATAGCCACA TCTAATAAAA GGTAAAGTAT TAGGAAATTC TTGTGACTAT  
269301 ACATACAAGG TACATTCTCC AGTAATAAAA TTTGTATTTT GATATTTTAA  
269351 TCTTCTGATT TCTTCTCTT CTGTATTCTC ATCTCTCAT CTATCCATAT  
269401 TCTCTCTCCC TGTCTTCATC TTTCTCTCTC TCTTCTATCC TACCCATCAC  
269451 CTATTGTATT TAGATAAGGA AAACAGGGTT ATTTTGTGGC CTCCCTATAA

FIGURE 3YYY

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269501 CTTTAAACAC ACCCTCTCC ATTTTTTGT TTCCATGAGT GGTGTGCTT  
269551 TTCTACTATA TTTGTAGTTC TTTATATAAT CTGACTACTA ATCCTTTGT  
269601 AGTTATATGT TCACACATAT CCTCTCCAG TCCTATTTCT TATCTTTATA  
269651 CTTTGTITAT GTTCCATGTG GCCTTTTATT GTAGGAGTGT TTAACATCAT  
269701 CAGATTTATC AGTCTGTTC CTATGATTT GTGGGTTTA TGTCTTCTA  
269751 AAGAAATCCT TCAGTACACA CAAAATCATA TAGTCTTTC TCTTTTTTT  
269801 TTTTCTTGA GTCAGAGTCT CAGTCTGTG CCCAAGCTGG AGTGCAGTGG  
269851 TGTGATCTTA GCTCACTGCA ACCTCCGCCT CCTGGACTCA AGCGATTCTC  
269901 GTGCCTCAGC TTCTGAGTA GCTGGGACTA CAGGTACCCA CCACCACACC  
269951 CAGCTAATTT TTGTATTTT GGTAGAGACA GGGTTTCACC ATGTTGGCCA  
270001 GGCTGGTGTG TAACTCCTGA GCTTAAGCAA TCTACCTGCC TTGGCCTCCC  
270051 AAAGTGCTGG GATTACAGGT GTGAGCCACC ACCGCTGCTA AAATCGTATT  
270101 TTATTTTAA TACTTTAAAG TCTTACCTTT TATATTTAGG TCCTTATCTG  
270151 AAGTTTTCGA CCTGACATTC AGTGTACAGT GAACACACTC ATACATCTCC  
270201 TCATGCAGAT ATGCACCGTC TAAAGATGGA GGCTACTAGC TACATTTAAC  
270251 TGTTTAATTT TCAACTGATT ATAATTAAT AGAATTTAAA ATTCAGTTCC  
270301 TTAGTTTCAC AGTAGCCATA TTTTAAGTGC TCCATAGCCA CGGTAGTGAA  
270351 TGACTACTCT ATCGAATAAT GCAGGTAAAG AACATCTCCT TCACTGAAGT  
270401 AAGCAGTCTT TTGTGGTCCC CTAGGACCTT TACCAGGACT CTCCTCTTAG  
270451 CGGGCTTTGA GTCTAGCTTC TCTCCCCTG TGGCCAGAA GTGTATTGAA  
270501 AAGTCAGCTG CCTTCTATT CCTCAATAGC TTCTCAAGG AATTTTGGC  
270551 CACAGGCAGT ATATTTTCT TCCAGATCC AAATCTAGCT TTTATTCTAC  
270601 CTTTGATTG GTCTATCAAG TAAATAAAT GGCTATTTA AAAATATGTC  
270651 ATATTCAGTG TTAACCTTAA ACAAATTATA AAAGAAAGT TGTGTATGT  
270701 ATCTAAGGTA CTCATGTGAA TAAATGAGAA ATAAGTAGGC ATTAACCTTG  
270751 TATCTCTGT TATTTATTT GTATATGTT TGCTTGCTCG ATCATCAAGT  
270801 GGCTTTAATT CTCTGAGAA TATTAGTAAA CTCTTGTTG ATCTGAGAGT  
270851 TCTTAGAAAC CTGAAGCTTC TAGTACAAC TTGCTGAAAC ATGATTTGTC  
270901 AGGAGAATTA TAAACATTGC ACATTAACCC AGTGAGAACA ACCCAACTTT  
270951 AAGAAATTA GCTAAATTGC CTGATAGTGA TTTAGTAAG GCTGTTGTT  
271001 ATGCACGTAC ACATTAGCAT CCATAGTGCT ACCAACTTTA AAAATGCTC  
271051 CAGATTTGAG TACACTCAGA AAGTTTCTAA GATATTGAAA ACAGTATTCT  
271101 TAAAGTCCCT CTGTTTCTG AACATTCCCT AGTGTACAAG ATTTTATATA  
271151 TTTATCCAAA TGAAACGTTG ACCTTCAATG TAATATTGAA TATAAGATTG  
271201 CAGATAAACT ATTATTACAG GTTATTCCTA ATAACTTTT AGTTGCTGAA  
271251 TGTTAACAAT AACAATCTTT ACTTTTAAAG CACTATAGAC AAAAGTGTA  
271301 TTTTATTTA GCACCAATAA ATAAATGATT TAACATTTTA AAGTATTTAA  
271351 TAAGACTGAA ACCACAGCA AAGCTGTTCT CTGGTGTAAC ATTACTGGAG  
271401 AAGTTCACTA GGTCAGAGTA AAAGCGAAGA AGATGTATTT TAACATCTAA  
271451 TATGCAATGT ACTTTTGTG TCTTAATCAA AATGTGAAAA AGAACATAAA  
271501 ATACAGAATT TTATTTTCAT TACAACCTAA ACCAGAGTTT AACATCTATA  
271551 AAATATGCTT CAAAAATTAG AAGTTTAAAG ATGTCATCAC TTATATAAGA  
271601 CAAAAATAAC ACATGTATAG CCCATCTAAA TCATTCTTGA AAACAGACCA  
271651 CACACAGCCT TACATTTTTA AGACAAGAGG GCTTTAAAT GTAAAAGGGG  
271701 AGAAAATGAG ACTTAATGAC ATATTAGAAC TAACATCCCC TGAGTATTGA  
271751 TTGAAAGGAA AGGTATTGTG TAATAAGGAA CATGTTCTTC CAATCTTCC  
271801 ATCAGCTTCA GTTTACTTTC CACTGCGTCC TAGGGTGAGA AAGTAATTAA  
271851 TTCTCTGTAC TTATTGAATT ATAAGTGTTT ATGAAGCAAC AACTTGAAAT  
271901 GACTTCAATC CCTACTTACC GGCCATAGGA AGCAGTAGTA TTGGCAGGGA  
271951 GAAAGCAAGT TTGGACATAA GGACTAGACT TCAGGCGTGT CCAATCTTTT  
272001 GGTTCCTCTG GGCCATGCTG GAAGAAGAAT GGTCTTGGGC CACACATAAA  
272051 AAACAAAATA ACTCTGACGA TAGCTGATGA GCTTTTAAA AAATTGCAAA  
272101 AATCTCAGTG TTTTAAGAAA GCTTGCTAAT TTGTTTGGG CCCAGGTCA  
272151 AAGCCATGTT GGGCCCAATT CAAAGCCATC CTGAGCCACA TGTGATGA  
272201 CCTTGGACTA GAGAAAAAAA CTCACTGAAG CCTCCATATT TTTTATAGTA  
272251 TCTTTCTGT GGGTACTTA TTAATTAAG GTTGAGCCAT TTTTAAAAA  
272301 CGTATTTCT CTGTGAGGAA AAGCAAATCT GTCTTAATGA GTTACATGAA  
272351 ATTATTTGAA GTTATATGAA ATCTAAGGGA TTTGAAAATT TCAAAAAGAT  
272401 TTAAGGAAAA TACATCAGAA TTTTGGTTGC ATTTAGTTA ACAGATTTAT  
272451 TTATCTAGAT TTTTGAATAA AGTGTTTTTG AATACTTAAT TCAGAAATTGA  
272501 TGATCTGCC ATGACCTTAA TAAAATTTCC TGGTTTCATG GCAATGGCAA  
272551 AAACAGTTTC TAGGTACTTG GGTGAGACAC ATACTAGCAG GTGTAGAAGT  
272601 AGTAATAAAA ATAATGATTT ATTATCAGAA CAACACTTCT TACACCTATT  
272651 CACCAATTTT CTTTCAGGAT ATCCCATATA TATTATTATT CCTAAATAGC  
272701 AAATAAGAA AATAAGCCAA ATGCAAGTCA AGTCACTTTA TATCTTCTC  
272751 ATCTTTCCAT TCATTTCTCT ATTCGTTTCA TCAATACCTT CCTTGTTCT  
272801 TAAACATCAA ATGGTGCTT GAGGCATTAA ACAAGTTGAT AAAATAAAAC  
272851 AAAAGCATGA ATACTTGACA TATTTCTCTC ATCACTAAGA CAACATGCCA  
272901 GTTAGTCAAT TAAAAACAA AAATAAATGT ATCAAAACAC GTGGTATTAT  
272951 GTGGAAGA CTTGATCCCA AATGTTCCCT TTTCTGAAG TTATTTGCTG

FIGURE 3ZZZ



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273001 TTGTCCATAC TATCCACGCT ATCCAAGTTT ACCTGGATAA ATAGAATGCA  
273051 ATCAGAATTA TGTTGAAGCT AATTTATTGA TAAAAATATAT ACCAAAATGT  
273101 ATTACAAACA TAAAACTTCA TGAGGTCACT ATTATTAATT TCAAATTTTG  
273151 GGTTTTTTTC TAACATTAAA TTATTTAAAA CTTTTATTTA AAAATGCCAC  
273201 ATTCAGGTAA AAGGTAGTAT GTCTTAGATG GGAAAAATTC AGCAGTAGAT  
273251 ATTTTACAGT ACAATGGTTG TAGAAAAAGG GATTATGAGT TTATTTATGT  
273301 GCAGATATAC AGTTATGTTT TTAATCTA GATTATAAAA CTGATATAAA  
273351 ATTCGAGTTT AACACATAT CTTATTAAGA TAAGAATCTT AATGCACTAT  
273401 GAAAAAGAAA ACAAACAAA GCCCAGATAA CAGGTTTCTT TTGGTAGTGA  
273451 TCTACAAGGT ATTAGGGATA TGATTTCCCT CTGTCTCTGC TGTCTCTCTG  
273501 TCCCTCAGTG ATTACAGGTA GAGCATCACT TCAATAACTT TTCCAGTCAG  
273551 TATTGGTGGT GTCAGCCAGT CTGACCTGAA AAGAAACCAA TACCCCTTCC  
273601 CAACCTGGAA ATGCTGGTAA TTTATTTTAC CATCCCCAGC TTCCCTATAT  
273651 TTTTCCCAT CCTACCAGCA AACTTTGT TTATATAAATG CAGCCAAATA  
273701 CAATTAAGCC AAATACAAGT CAAATCTTCC TCATCCTTCC ATTCAATTTCC  
273751 TCATTCCTTC ATTTGTTACC ATCCTTGT TTTTTTTTTA TTGAGACGGA  
273801 GTCTCTGTCA CCCAGGCTGG AGTGCACTGG TGCATTCTCA GCTCACTGCA  
273851 AGCTCCGCT CCCAGGTTCA CGCCATTCTC CTGCCTCAGC CTCCCTAGTA  
273901 GCTGGGACTA CAGGCGCCCA CCACCATGCC CAGCTAATTT TTTTTTTTTT  
273951 TTTTTTTTTT TTAGTAGGGA TGGAGTTTCA CCATGTGAGC CAGGATGGTC  
274001 TTGATATCCT GACCTCGGGA TCCGCCACC TTGGCCTCCC AAAGTGCTGG  
274051 GATTACAGGT GTGAGCCACC GCGCCCGGCC ACATCCTTGT TTTTAAACA  
274101 TCAAATCGTG ACTTGAGGAG TTAACAAGT TAATAAACA AAAGCATTAA  
274151 TACTTGACAT ATTTCTCTTA TCACTAAGTC ATCATGCCAG TTAGTCAAAA  
274201 AACAAAAATA AATTCAGAGT ACCTCTTTCA CATGTTAAAC TCATTGGATT  
274251 ATTTAAATAC TAAGTGATTT AACATAGTTT TTCTGAGCAT TTCACACACA  
274301 AAACATTTTT TTTTCCACA TGAGACCATT ACTTCTGAAT TTTAAGGAAT  
274351 TTCATATGGT GCATGTTTGA GGAATTTCTG ATGGTGCTG CTGTAATAGG  
274401 ATCTTGGCTT ATTTGCATTT GTTGATCAGA TGCAACTAGG TATAGAGATT  
274451 GGATGAGGGA AGAGTAAAGT AAAATTACAG AAAACTTTTA AGGCTTCCCA  
274501 AGTTTGTAC CGTTTGATAG TATTAGAAAC AATGTCAGTG TAATTTCCAT  
274551 TTTCAGGCT ATGTATAGTG TTAATAAGAT TCTTGCCATG AGTCTCTTTA  
274601 CTATTTATAG ATTAGTAGGA GCCATTTTTA TGGCAATCCA AAGCTCTCTG  
274651 TTAACCTTAA AACACTGTAT AAAATGAGTT GAAAAGATTA TTAATAATCT  
274701 TACACAGAAT GATGTCTTTC AGTTCAAAGA TGTACCAGT ATTAACAGTG  
274751 GCATTTGTTT TAAAGAGTA AATATCCTAC TCTTGT TTTT CATTAGAACT  
274801 CTAAGCAAGA CTACAAACAA AGTTTTCATT GCAATAATAA ATCTTTTTGA  
274851 AAGGGTTTTT TGAACCACT GGATTTACAT ACTTTACATT TGCCCTACCT  
274901 AAGTTTACGG TAAGGAGCCA AATTCATTTA GCATAAATAT TACAACCCAT  
274951 GAATCCAGAC ATACAGCAAT TTATGGGGGA CATTAGTCTT CTTATTATAG  
275001 AAAACGTTTG TTTAAATAAT GTGAATAACT ACCAATGTTT ATTATAATTT  
275051 TATATTTTTT CCTTATTCAT CTCTAATAAC AATTTCCGTT ACTTCTTAAA  
275101 TCATCCCGG GTTAAGAGAA CATAGGCATT TGTAAGTAGC AAGTATTACA  
275151 AAAACAATA AGATTTTTTA CAAAAAGAGA AACATCAAAT TTCTGTAG  
275201 GCTCACTGAC CATGCTCTCT AGTGTCACCT TAGTTCTCTT TTATAAGCAT  
275251 ACGTACTTAG GCTGCGCACA GTGGCTCAGC CCTGTAATCC GAGCACTTTG  
275301 GGAGGCGGAG ATGGGCAAAT CATGAGGTCA GGAGTTCGAG ACCAGCCTGG  
275351 CCAACGTAAGT GAAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCGGG  
275401 CACAGTGGCG GCGCTGTAA TCCCAGCTAC TTGGGAGGCT GAGGCAGGAA  
275451 AATGGCTTAA ACCCGGGAGG CGGAGGTTGC AGTGAGCTTA GATCACGCCA  
275501 TTGCACTCCA GCCTGGGTGA CGGAGTAAGA CTCCATCTCA AAAAATAAAT  
275551 AAATAAATAA ATAAATAAAT AAGCATACAT ACTTTACCTT CATGGATGTT  
275601 TTAAGGGGAA GGCAGGTGTT AAGAATCTAT AAAAAATACA AAGTGTTAAC  
275651 TTTAGAAATT AAGAGTTTTT GAATGCTGAA CAACACATTC CATTTAAATA  
275701 ACGTTAATAG AAACAGATTT TGAAGCCTCT AACATCATGG TGCATTAAGA  
275751 GCATAAGAGA AACGAGCCGG GCGTGATGGC TTACGCTTGT AATCCCAGCA  
275801 CTTTGGGAGG CTGAGGTGGG CAGATCATGA GGTGAGGAGT TCAAGACCAG  
275851 CCTGGCGAAC ACAGTGAAAT CCGTATCTG CTAAAATTAC AAAAATTAGC  
275901 TGGGCATGGT GGTGGGTGCC TGTAATCCCA GCTACTCAGA AGGCTGAGGC  
275951 AGGAGAATCG CTTGAGCCCG GGAGGTGCAG GTTGCACTGA GCCAAGATTG  
276001 TGCCACTGCA CTCACGCTA AACGACAGAG CTACACTCCG TCTCAAAAAA  
276051 AAAAAAAGAG CAACAGCTG GAGTCACGA GCATGTAGCT GCCCAGAGCC  
276101 TCCTCCCTAC ATCATGTGTG TAGCTTGTTC CATATTGTGA AGGGTGTGTA  
276151 TATGTATATG TGACACACACT GGCACACAAA TTGCTATGCA TTTGCTTAC  
276201 TAAAGTGTTT TTGCTCCCC TAGGGTCTTT AACTGCCTGG TTGAACCCCT  
276251 TCTGAGACCA CTACTCTGTT TGAAGGATC TTGCCAGCCT TCCCTAGAA  
276301 TTGCATCTCT GATTCTGTTT CTTCTCAGAT ACACATCTT AATTGAAGCT  
276351 AGGACTTAAC ACAGTCTTAA AAATTACCAT TAATTAGGAC CATTAAAAGC  
276401 CAAAACATCT TCCTGCCCTA GGATTGGGTC CTTTAATTGA AGCTAGGACT  
276451 TAACCCATAA AGTTCCCAAT GATTAGGACC ATTAATATCTT

FIGURE 3AAAA



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276501 CCTGCCCTAG CCTTTCCTTG ACCTGAAATT ACCTTTGCTA AAATTGACCT  
276551 GCAATGTATT TCTTAATATA TTTTCTGTTA CTCGTTATAT AATGGAGTAA  
276601 GATTGTGGTG GGAAGAAACA GACTCAGGAA TGTGTTGACA TTTGCAAGGT  
276651 TTAGAATCTA GATGAGGCAT GAACTTGAAT TCTGGAGCTT CTTGTGGTAG  
276701 CCTGATTTAA CATAGTTAAA GGCCAACATA AAATTAATAC TGGCAGACTT  
276751 GAGGCACAAT AGTACTGGTG ATGCTGTGAG TGAGTGGTAG AGAAGGAGTG  
276801 GTCTCTTGAG CCCATTGATG AAGCCTGGCG GTCTGGGGAA GTGAATCTAA  
276851 GTCCAAGTGT ACAGAATTCA TACTTAACCT CTTTGGAAAA GGGCAGACTC  
276901 CTCCACATCA GAGCTACTCC TTGACCTCTG TGAGTTCCTG ATATTCTGGG  
276951 TCAGTAAATA GATGATATAG ATACAGATAT AGACATAGTC ATAGGCATAG  
277001 ACATAGAGCC TGGTTAGGAG TATGAAGTAG ATCCAAATCC TGATTTTAA  
277051 ATATAAAATA ATGTTAATTA CATTATGCAA AATGATTTTT ATGCAGTATA  
277101 CATTGTGAAA ATTTAATGAC CCACAGAAAT TGATTTTCAG AATCATTGAT  
277151 AACATCATTG TTTTGGATTT ATGAAAGGAA CATAGCAGTA ATGAAAGAAA  
277201 CTAAATTATG GAATCTTTTC AATGATATAC TCAGAGGTGT TTTTTTTTTT  
277251 TTTTTTTTTT TTTTGGAGAT GGAGCCTTGC TCTGTGCGCC AGGCTGGAGT  
277301 GTAATGGCAC GATCTCGGCT AACTGCAACC TCTGTCTCCC GGGTCAAGC  
277351 GATTCTCCCA CCTCAGCCTC CTGAGTAGCT GGGACTACAG GCACGTGCCA  
277401 CCACACCTGG CTAATTTTTG TATTTTTAGT AGAGACGGGG TTTCGCCATG  
277451 TTGGCCAGGC TGGTCTCCAA CTCCTGACCT CGTGGTCTGC CCGCCTCAGG  
277501 CTCCCAAAGT GCTGGGATTA CAGGCATGAG CCACCACACC CGGCCGATAT  
277551 ACTCAGAGTT CTAATGTTTT ATCTGTTATC TTTTCATATA AATCCAGAGC  
277601 TATATACAGA TTAGTTAATC CCATGGCAGA ATGTATAAAA ATATCTGCTT  
277651 TCATGTAGTT TTTATTTTAT GTGGAATATT TACCTAAACC AGGATTTAGT  
277701 TTTTCATCTT ACTAAATTTT TCAGATATAC ATATGTATGT ATGTATTTAC  
277751 TTAATTATAA AACATGTTCT AAGGAAGTAA AAGATATCTT TGGATGCCCT  
277801 TGCAGAACGT AGAACTACTT TTGTTAATT CTGTGCCCTT ACATATTTTT  
277851 TGTTTTTCTT AATTCATAAT GTGGAACAAG GCCTTCTTTT TTTCTCTGTT  
277901 CCAAATTTTG AGGTAAGAGG TATGGCAATT CACATATTAT GATTGTTTTA  
277951 GAGATGAACT TAAATTCACA GGGCTTTAAT AAACATCAGC CCTGAATAAA  
278001 CTGAATATGT AAAACACTAG CACTGATTAC TCTATTCCAA AAGGAAAGTC  
278051 CACATTTTCT ATGTTAATAC ATTTTCTACT GCAATTATTT CATATGTTAC  
278101 TCAGAATCAT GCGGGAAGTT GCATTTCTTT TCTCTACTCT TCCTGTATGT  
278151 CATCTTGGGA GCCCAAGCGA ATTTTATATT CAAAAGAGCA ATTTATGCTA  
278201 CTTATTAAATA CATGTTTTTT AACAATCTTT AGGGATAATA AGTTGACATA  
278251 GCTGAGAGTA GCTGAGGGAC TGATGGCATA CGCAATCTGT TAAAACATTT  
278301 CTTTGAAGAG AAAGCTTGTG CTTGACCATG GTTGCTCGGT GGAGAGTGCT  
278351 CCTATGCATA CCACAAGCTT GGCCTTCAGT TTGGAATAGC TCTTTTCATT  
278401 GTTTGAGTTT GGTTCACATG AGAAGGCAAG CTTGTTACTT TACTGTAAAA  
278451 AATAAAGTGC TTGTCCAAGC TTGTTGCATG TTGGCAGTTG AGAGGCTGCT  
278501 CTTTGTCTGG CTGGAACGTG GACAACTTTT TAACCTCTCC AAGGCAACGT  
278551 AGCTGTGACA AGATGTCAGT TACCTTCAAA AAGTAAATAA ATCACAGCCT  
278601 TTGAGTTTCA GCATAATAAT AAAGATCCAA TGTCTCACA TGAGTTTCTC  
278651 ATTCCACAAT TTTGAATCAT ATTTTTTTGT GGCAAAATGCT CTACCTTCAA  
278701 AGTAAAGCGT TTTAAAAATA CAGTTTAGAG AGCCAGGTTT CCTGAGAGGA  
278751 AGATTATTAA CTACAAGGA AAGAACAGTG AATTATCTTT AATAAAATAA  
278801 GCTAAGAAAC AAAAACATTA AAGTTTTGTT TGAATTTTAA CCTTCTTGC  
278851 CTATGTTCTT TACCAAATCA GGAAATACTA GTGTAGCTGT AGTGTGAACA  
278901 TCCTTGTATT TAAGAGAGTG AATTTAAATG TTTCAAATAC TTTGTAAGAC  
278951 AATTAAACAT TTGCTATATG TAAGTTCAAC TTAGACTTAC AAATTTCCAG  
279001 GAATTATTCT AAATTCATTG TATAGAACAC TACCTGACAA GTTGGAAAAT  
279051 ATGGACGTAA GAGTCTTTAT GGCTTAACTG TGTTAACTGG CTGATGTTTA  
279101 ACAACAATCT ACGTTTCCCA AGTTTCACTC CAAACCCGTA AGTTGTAATG  
279151 TTTCAGAAACA TCGACAAAAA CACCAATCAC TAGATGAATA GAGATATTTG  
279201 ATTGAAAAACA AACTGTTCTA CAAATATATT AAGCTTGAAT TTGCTAATCT  
279251 TTATCAAGTA ATTCCCAGTG CTCAAATGTG TTTTGTAGAG TGACATACTT  
279301 TGCTGAGCAA AAATGGGGTG TTTGAGTTTT AGTTTCAGGT GTTCTTTTAA  
279351 CCTTCAAAAA TAGTGGCCGA GTTAATCTTG GGTAAACAAGT TATCTTAAAA  
279401 AAATGAAGAA GAGGCCAGGC ACGGTGGCTC ATGCCTATAA TCACAGCACT  
279451 CTGGGAGGCC AAGGCGGGCA GATTGCTTGA ATCCAGGAGT TCAATACCAG  
279501 CCTGGGCAAC ATAGTGAAAC TTTGTCTTTA CTAATAATAC AAAAAAATTT  
279551 AGCTGGGCAT GGTGGCATAT GCCTGTAATC CCAGCTACTC GAGAGACTGA  
279601 GGTGGGAAGA CCATCTGAGC TGGTGAGGTC GAGGCTGCAG TGGGCTGAGA  
279651 TGATGCCGCT GCACTCCAGC CTGGGCAACC AGAGTGAGAC CCTGTCTCAA  
279701 AAAAAAAGT GAATAGAAT ATACAAAAA ATAATAATAA CAGAAACAGT  
279751 GCATTAGATG AAAGTTCAAA GTCTTTTGTG GCTGATTGAA AAATGTAATA  
279801 GCACTGCTAA TGCCTTTTAT GGAAAGAAGC AATATAAACT AGTAATTTAA  
279851 TGCTTACTC CATTTCTACA TAGCATCTTT TAAAATTTAT TTTTAGTATA  
279901 TCTGTCTTA GTGGTTTATG CTGGGGTTAA TATTCTGGAG ATAATATTAC  
279951 ATCAGAATTC TATATCACAC ATTTTGTGTT TCACTGTTTA AGAAAGGTAA

FIGURE 3BBBB

280001 GTAAATAATA CTTGAGAACA GTGATCTCTG AACTTTTTCA TTGCATATAC  
280051 CTGAGTACTT TTTAGCATAT ACTACTAATA TGTGCATATT TATTTATTTT  
280101 ATTATATGCA GGTTTTATGC AATGTATATA AACATATAAA ACAGGAATTT  
280151 AAAAGGATGT GATTTTATGT CTTAAAAATC TATTTCTAATA ATTTTATGGC  
280201 CAGCAGATGA CTTTTTCTT TCCTCTTATT TTGTAACCTT TAATTTTGAC  
280251 ATATGATACG TACACATAAA GTTGAAAAAA ATAGTACATA GTACCCCAT  
280301 AGCCATAGCC CAGCACCCCC AATGGTGATA TCTTATATCT GTAGAACAAT  
280351 ATCAAAACCA GGAAATTGTC ATTAGTACAA TATTATTAAT TAGACTACAT  
280401 AGCTTATTCA GTTCTTATCA GTTTTTACCT GCACTCTCAT GTTTTTCTGT  
280451 GTGTGCAATG CAATTTGACC CCTATTACAG ATTCATATAA TCACTACTAC  
280501 AATCAAGGTA GAGCATTATA TATTTGATCA CCACAAGGAA ACTCTCTTGT  
280551 GTACTCCTTT ATAGTTGGAT TCTCCCATCT TCTTTTCTCT GTCCCTCTGGC  
280601 AACCCTAGT CTGTGTCCAT CTCCACAGTT TTGTCTTCT AAAAATGTCA  
280651 CAGCTGGGCA CGATGGATTG CATCTGTAGT CCTAGCTACT CGGGAGGCTG  
280701 GGGTGGGAGG ATCCCTTGAG CCTAGGGGTT CGAGGCTGCA GTGAGCCGTG  
280751 ATCGTACTCG TGCACCTCAA CCTGGATGAC AGAGCGAGAC TCCATCTCTA  
280801 AGTAAATACA TAAATCAAAA TGTCACATAA ATACAATCAT GCAATGAGTA  
280851 TTAATCTTCC AAGATTGGCT TTTATCACTA AGCAGTTGT TCTTTAGATC  
280901 TAGCCAAGCT GTATGTATCA ATAGTTGTAC TTTTTTTTTT TTTTAGAAGG  
280951 AATTCTTGCT CTATTCGCC CCGCTGGAGT GCAGTGGCAT GATCTCAGCT  
281001 CACTGCAACC TCCGCTCCCA GGTTCAAGTG ATTCTCTCTG CCCAGCCTCC  
281051 TGAGTAGCTG GGATTACAGG TCGCTCCAC CACGCCCAGC TAATTTTTGT  
281101 ATTTATTTAT TTATTTGAGA CGGAATCTTG CTCTGTCAAC CAGGCTAGAG  
281151 TCCAATGGCG CAGCTTTGGC TCACTGCAAC CTCCGCTCC TGGGTTCAAG  
281201 TGATTTCTCT GCCTCAGCCT CCTGAGTAGC TGGGATTACA GGCACCCACC  
281251 ACCGTGTTGG CCAGGCTGGT CTTGAACTCC TGACCTCAGG TGATGCACCT  
281301 GCCTCGGCTT CCTAAAGTGC TGGGATTATA AGCGTGAGCC ACTGCGCCCA  
281351 GCCAGTTGTA CCTTTTTTAT TCCTGAGTAG TTACACTGCT TTATGGATGT  
281401 ACCAGAGTTT AACCATTTAT CTGTCTAAGG ACATTTAGGT TGTTCAGT  
281451 TTTGGACTAT TATGAATAAA GCTGCTGTGA CCATCCACAT ACAAACCTTT  
281501 ATGTGAACAT AAGTTTTCAT TTCTTTAGAA TAAAGAGTAC AATTGTTGAA  
281551 TCATATGATA TATTAGTTTC CTGTTGCTGC TATAACAAAT TACCACAGGC  
281601 TGGAAGCTTA AACAAACAAA ATGTATCACA GTTGATAGC TTAACAATCC  
281651 AACATATGTC TCATCGGGCT AAAATCAAAG TGTTGGCAAG GTTGCAATTC  
281701 TTTCTGAAGG CTTTAGAGAA GAATCTATTC CTTTCTAGT TTCTCCTGTT  
281751 ATTCTTGGCT TGTAGTCTCT TCCTTCATCT TCAAAGGAGC AATGTTGCAT  
281801 CTCTCTGTGC CTTTCTTCTG AAGTCACATC TTCATCTGCT AACTTTCTTC  
281851 TGCCCTCCCT TTCCACTTTT AATTCTTGTG TAATGTTACA TAAGGTAGTT  
281901 CTGTTTTAAG GTCACTGAT CAACGACCTG GATTTCATCT ACGACCTTTA  
281951 TTTCTCTTTG CTATGTAAAG TAACATATTT TCAGGTTCCA GGGGTTAGAA  
282001 TATGAACATC TAGGGGTTGG TAATGTTGTT CTGCTACTG CATATGATAA  
282051 ATTCATGTTT AGTTCTATTT TAGAAACTAC CAACTATCT TCCAGAGTGG  
282101 CATGTGACTT TATTTCCCA CAGTAATGA ATGAGAAATC TAGTTTCTCT  
282151 ACATCCCTGC CAGCATTTCA TATTCTAGTA GGTATGAGT GATACCTCAT  
282201 TGTGATTTTA ATTTGCATTT CTCTAATGGT TAATGATGTT GAACTTTTTT  
282251 TATGTGCTTC TTTGCCATAC ATATTTCTTC TTTGGTGAAA TGTCCGCTCA  
282301 TGACTTTTGC ACATTTTCTT TTGGATATGT GGTTTATACA AGTCCCTCTGA  
282351 ATATGTGGTT TGCAAAATAT TTCTCTCAT CTGTAGCTTG TTTTAAATTC  
282401 TCTTAACAGG GACTTTTGCT TGTGAGAAAC CTTATAAAAT TTCAGTTCTT  
282451 GCCTTACATG AGTGATGCCA CATGCTACAG TCATGAATAT CTCATAGGGT  
282501 TTTAAAGAAA ACATTCATAT GAGACAGTAG TCATTACTTA AAGCTGTGTT  
282551 TGAAGTAAGA CTTTGTGCTG ATTTGGATGT AGTTAGAGTT GGACCCAGTG  
282601 ATGTGCTTGA ACTGGCTCTT CCCAGTTTGC AAGAGGCATG TTCTGAAGTC  
282651 CAAGAATGTT GCAAGTTAGT TTTTAAACAG TCAGTAGCCA TGTGAGGAGT  
282701 ATGTATACAA TGGAAATTGG CAATCACTAT AAATCAGTGC TCCCCTCCTC  
282751 ACTGGAGAGT GGGTAGTTAA ATATTTACCA ACTCTCTACC AGTGAGACTG  
282801 GCAAAGAATT TGTCAAGAAA TTGAGTATTT TTTTCTTTA AGTCAGTGCC  
282851 CATTGAGATA TATCATAAAT AAATATGTCA GGGTATTCTC TTCACCAGCT  
282901 TATAATATTT GCTTTGTATT TTTTGCTATT TTATTTTTAT TTGTGTTTCA  
282951 TCAATTTTGT CCTGTTCTAA TTACAATTTT TCAGAATGTC AGGGAGTACA  
283001 GTGGTATATA AGTAGTATAG TTTAATGGTG TAGATTAGAC CATACATTTT  
283051 AGAATCAGAT AGACTTAGCT TACATCCAC CTCAATTTAG TAGCTGTATG  
283101 AACCTGGCAA TATTGTCTTA TATGTAAAAT TATGACAGTT ATTATACATA  
283151 ATGCAGTCAG CCCCCCAAAT TTACAGGTTT CAAATCCGTG GATTCAACGA  
283201 ATCAAGGGTC AAAAAAATT TTAAGAAAAA AAAACAGTAA AAAATAATGC  
283251 AACAATCAAA AATTTAAATG TTAACACAAA TGTTGACAAT ACAGTATAGT  
283301 AACTATTTAC ATGGCATTTA CATTGTGTTA GCTATTACAA GCAATCTAGA  
283351 GATGATTTTA AGTATAGGGA GGATATGCAG AGGTCATACG CAAATAACTA  
283401 CACCATTTTA TATAAAAGG ACTTGAGCAT CTGTGGAATT TGGTATCCTG  
283451 GTGGGGGTTA GGGAGGGGAT TGGAAACCAAT CCTCTGCAGA TACCAAGACA

FIGURE 3CCCC

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283501 ACTGTATATA CTTTGTAAAG CTTGTATAAG ATGATACTCA TAAAGCATTT  
283551 AACAGTAAT GTCTCAATAA GTGTTTAAAT TGTATATCA TTACAACATAT  
283601 CACCATTATA ATCTCAACAG GGAAAGCCTT TCATAATCAC AGCTGATTAA  
283651 AATACCTTTT TAGTATTCAG GCATCCCTG CTTAACACTT AATATCCTAG  
283701 GAAATCAGAT GTCCTACTTG AAAATTCTAA CCAGGAACCC ATTCCCCCAA  
283751 ATCCCCAACCC AATTTCTCTAA AAGCTAACTA AATGCAGTGA AATATTTTAA  
283801 AAGTAATAAA TTATAATTTG GGGATGTAAA ATGCTTAAAC AGTGGTTTCC  
283851 TGATGACCTA ACAAATCTAG CCTTAAGGAA CCATTGCTAG GTTGATACAC  
283901 TCAGAGGACT TTTCGAAATG TCTACACATG ATCAGACCTT TCTACCAGTT  
283951 GTGTTTGGAA TGTAACAGGA GACTTCCTC CATACATTCT TTTGTTTAAA  
284001 ATGTTATGTT AAATTTGAGG AATGTAAGTA TAAATTTTTC CCATATAAAC  
284051 ATCAGCAGGA AAATGTTGAA TTTAGAGACA TATATTGCCT GAGTTATGGG  
284101 TGTAAAAACC AAGAGGAATT CTATCAGAAA ATGTTAACCA CGGAGACTCT  
284151 GTAAGTGTGC CCGATTTTTA TTTCTCGTT TATTTACTAG ATGAAGTGGA  
284201 TATAACTAAC AGGAAAAACAC CTGATTAGTG CTGCAGACTC TGTGTTCTTA  
284251 TTTAATTCTC ATACAACCTT GGAAGTTAAA AGACCTTAAA TTAATTTTGC  
284301 AAAGCTGTAC AACTCCTTCA TTTCTGAGTT GAAATTCAGT TCTACTGCAG  
284351 TAGCTAATAG CTGTCCAGGA ACAGCTATTA GAAAACTGGA AAAGCATCAA  
284401 GGAAAGCCTA CTGAAGTGTG TTTTCCTTTC GATCCAGTGT CTTCTTTTCT  
284451 AGTAATGTGC CTGTCTATCC CCCCTTCCCC TATAGGAAGT TTTCTTCTCT  
284501 TTCTTCAGAT GCTATTATAT GAGATACAAT TTATAAATTC TTTTCTTCT  
284551 CATCTGACAG TAGCTTTTTT CTATACAATC AGTTACCTTT CACTGTGTTT  
284601 TTCACCCATC CTTTTTAAAA TATTTCTGAT GTCAGGATTT GCTGCAAAAG  
284651 AATTAACGAA AAGTATCAAG AAGTTTGCTA GAGCTTTCTT TCTACTCTTG  
284701 CTTCTCTCAT GGAATCAAGT GGAAAATTGG GCTTTCTTAT TTTATTTTCT  
284751 TCACCTGAGTA ACTACTCACA AGAATGTCTA CTTCAAGTAA GTAGTTGAAC  
284801 CAAGCATATC CTGACAGCCT CATGGAAGCA ATGAATCTTT TAATTTATAT  
284851 TAGAGAGGAA AACGAATTAA TGAGGAAGAA AATCATAAGT AGATGGTTAG  
284901 GCATTCTAGA GAATTATATT TAAAAATTAGC TACTAGGTCA CTTCTGCATC  
284951 AGTTGTTCTA ATGAAAAGTG ATAGGGTATC CCCTCAAATG TTAAGTCACA  
285001 TTCTGGCCAT CCTTTTTCAT AGGTTGCACT CAAATTACTT TCAGGTTAGT  
285051 TGTGTTTCTT TTTTTTTTTT TTTTTTTTTT TGTGAGACAC GGTCTAGCTC  
285101 TGTGCTCTGG GGTGGAGTGT AGTGGCACAA GGCTGGAGTG TAGTGGCGCA  
285151 ATCACACGGC ACATTGGCAC CTCTGCCACC TGGACGCAAG CCATCCTCCC  
285201 ACTTCAGCCT CCTGGGTAGC TAGGACTACA GGCACACGCC ACCACACCCA  
285251 GCTAATTTTT GGTTTAGTTT GTTTTGTITT GGTAGAAATG AGTTTCGCCA  
285301 TGTTACCCAG GGTGCTCTCG AACTCCTGGA CTCAAGTGAT CCTGGCCTCC  
285351 CAAAGTGCTG AAATTACAGG TGTGAGCCAC CACGCCTAGC CCAGTTGTGT  
285401 TTCTGTACAC CAGAAGTGAA TAATCTGAAA ATGAAATTAA GAAAACAGTT  
285451 GCATTTACAC TGTCTCCAG AAGAATAGAA TACATAGCAG TAAATTTACC  
285501 CAAGGTGAGA TACTTGTATA CTGAAAACTA CAAAACATTT CAGAAAGAAA  
285551 TTAAGAAAAAT CTAAATAAAT GGAAAGATAT CCTGTGTTCA TGGATTGAAA  
285601 GACTTAATAT TGTTAAGATG TAGGCACTAA CCAAAGTGAT CTATGGGTTT  
285651 AGTGCAGTTC CTATCCAAAT TTCAGTGACA TTTTTTGGCG AAGTGAGAAG  
285701 GCCAATTCCT AAACCCATAT GGAAATGCAAG GGGCCCCAAA TAGCCAAAAC  
285751 AATATTGAAA AAGAACACAG CTGAAGGACT TTCACTTTGC AATTTCAAAA  
285801 CTTACTACAA AGTTACCATA TTCAAAATAG TGTGCTACTA GCATAAGAAT  
285851 AGACTATATG TAGACCAATG GAATTAGAAT TAAGAGTCTG GAACTAAATC  
285901 CATGAATACA TGGATTTATG AATTAATCGA ATATCCACAA GGATACTAAG  
285951 ACCATTCAAT GGGGAAATAA TAGATTCTTC AATTAATGCT GCTGGGACAA  
286001 CTGGATTTTC ACATACAAAA ATTGAAGTTG GACCCCTACC TTATACCATA  
286051 TATAAAAGTT AACTCCAAAT GGATCAGTGG CCTAAATATA ACAGTTGCCA  
286101 TAAAAATCTT AGAGGAAATC ATGGGGTAGG GATCTTAAAG ACTTTGGATT  
286151 TGGCCATGGG TTCTTAGATA TGACACCAAA AGCACAAGGA AGGAACACAT  
286201 TTAATGGAAC CTCTTGCTT ATAAACCATA AACCAGACC ACTATGTCAA  
286251 AACTATTATA AAAATCAAAT TAGACCCATG TAAGCAGACT ATATAGCCAC  
286301 TGATTTGGAT AGTAATATGA GACCAAATTT TTATTTGTTG ACAATTAACC  
286351 TATATACAGT AACTAACCTG TAGAGTCTGC ATCTAAGAAG TTTTGTCAAA  
286401 CTTTCCAAAG CTAACCATCA ATGTCGTTAT GGATAGAAGG TACCAAAGTC  
286451 TTTAGTGTA CATATTTAGA CAATAGAGGT GTTAGGAATA GTCTCCAGAT  
286501 GGATACTAAA TTGGTTCTTA TCCAACAACA TTAAGAAATA GCCATTCTTC  
286551 TGTATTTTCT TGTCATGTT ATTCTCCTCT ATAATATAGT AAAATATATA  
286601 TTTTGTCTTC CAGCTCTGTT TTCCTGGCAT GCAACTCCTA AAATCCTTAG  
286651 AATTTCCAAA GTAGTATCTT TTTCTATGCT GATGAGTTGA CTAGTGGCTT  
286701 CAGGGTGGGG TCACAGGAGA GAACAAGGCA TGATTATAGG ACTGGGACTT  
286751 GAAGTCCATC CCACAACTC CAGGGAGGGG AGAGGGGCTA AAGATTGAGT  
286801 TGATCACTGA TGACCAATGA TTTAGTCATC TGTATCTTTT GTGATATCTT  
286851 TAATAATAAC CTGGTAAATT AAGTGTTTTT GCTGAGTTAT GTGAGCCACT  
286901 CTAGAAATTA ATTTGAACCA AGCAGGGGTC ATGGGAACCC TGATTTATAG  
286951 CTCATCAGTC AGAAACATAG GTAAACAAC CTGGGGCTTG TGGTTGTTGC

FIGURE 3DDDD

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287001 TGTGGGGTGT CAGTCTCCTG GGGTCTCTGAC ACTGTCTCTA GGTAGACAGT
287051 TTCAGAACTG AATTGGAGGA CACCTATCAG GTGTATGTTG CAGAAATGAA
287101 TGATTACTTG GTAGTAGGGA GAAATCCCCC ATATATTTAG GGTATAAAG
287151 TCTTCTGTAT TGATTGCTGT GGTATGAGAG CAGAGGGAAA AAAATTTTTT
287201 TTTCAACTCA TATCCTCCCA CTCCCATAG CTGCTCTTGC CTTTATCAGT
287251 GTTGTGTGTG AAAGTCTGTA TAAGGATAGA AAAGGAGATT GAGGTGGCCC
287301 TATGAACTGC GTAGCCCTGG ATTCCATTCC ATTGAGTTCA GCCAACGGGA
287351 TGCATCAAGA ATTTTTTTTT TTTTTTTTTT TTTTGTAGAT AGGTTTCACT
287401 GTCACCCAGG CTGGAGTGCA GTGGTGCAAT CATAGCTCGC TGCAGCCTTA
287451 AATTCCTGGG CTTAAGCGAT CTTCACCTC AGCTTCCTGA GTAGCTGGGA
287501 CTACCAGCAT GTGCCCCTGC ACCTGGCTAT CAACAGGAAC TTAGAAGGTG
287551 GAAGGAGAAA GAGGTCAGGA TATGTATTCC CGCTCCCTCC CTGCCCTAGA
287601 ACCTCAATTC TAGTATTGGC TGTATCCCTT TATAACTGTA TCTCTTGTCC
287651 TTTGAGCCTT CACCCCACTT CTTCACAGC TTCAGCTTTG GGTTTTGATA
287701 ATACTGTCTC CTCCCACTTA CTCCTTCCAG GTCCTAAGCA GTAATAGCTT
287751 CCTGCAGTCC CTGAGCTTTG GTTCCGTCAG CATGCCCTAA CCTTTCCAGC
287801 ACTTTGGGAA ATATTCCCTA AGTTGATTTG TCTTCAGAGT CTCTAACAGG
287851 ACCCTGACTA ATTTTCTATT TTATTTTAC AAGTAAAAAT TGTATATATT
287901 TATGGTGTGT ATGATGTTTT GATATATATA CACATTTAGA ATGGCTAAAT
287951 CAAGCTACCT AATATATGTT TTACCTCACA TACTTATTTT GGAAGATGAG
288001 AACATTTAAA ATCTACTGCC TTAGCAATTT TCAAATACAT GATATATTGT
288051 TAACTGTAGT CATCATGACA TACAATAGGT TTCTTGAAGT TATTGCTCCT
288101 GTCTAACTGA AATTTTGTGC CCTTTGGCCA GCACTACCTA ATCCCTCTGC
288151 TAACCACCAT TTACTCTCTC TGAGTTCAAC TTTTTTACAT TCCACATATA
288201 AGTGAGATCA TGGGATATTT GAATTTCTGT GCCTGGTTTA TTTCACTTTA
288251 TGTGATGTCC TCCAGGGTCA TCCATGTTGT CAAAAATAA CAGACTTTCC
288301 TTCTTTTTTT AGGCTGAATA GTATTCCATT TTGTTGCACA TTTTCTTTAT
288351 CCATTCATTT GTTGATGGAC GCTTAGGTTG ATTTCATATC TTGGCTATTG
288401 TGAATAGTGC TACAATAAAC ATGGGAGTAC AGATAGCTCT TTGATATACT
288451 GATTTCTTTT TTTTCTTTT AGATATATAC CCAGCAGTGG GTTTGCTAGA
288501 CTATATAATA GTTATATTTT TTATTTTGT AGGACCTCT GTGCTGTTTT
288551 CTGTAATTCG TTATAGAAAT TGACTAGTTG ACATTCCTAT GTAGAAAAAG
288601 GGATCCCTTT TTTCTACATC CTTGCCAACC CTAATTTTTT TATCTTCAA
288651 CTTAATTTTT TTTTCTGTT GGCTAATACA ACTTTGGCCT TCCAAATCAT
288701 GGTAGACATT CTGTGAATAG TATCACTGTA GTAGAAGCCA GAATGTTTTA
288751 TAGAGGAAAT GTAGAACAGA AATTAATCT GGGGAGTCAG ATAAATAGAG
288801 GTAGATTTAA AGGATCTTTC ATATTAGTGT TATTGCAATT TTCTCAGTGT
288851 CTCCAAAGAG TTTGAAATGT TGTATACGTT ATTTAGAATT GTAATCAGAA
288901 GATAAAGTAT TTTACCAACA ACTGAGCTTA ATTTTATAG TTTATTAGTA
288951 TCTTCATTTT CTAGTCTCCG AAGACCATCT TCTCATAAAA GTGCTTATAT
289001 ATGTAAAAGT TTGTTTGCAT TTTCAACCTG TATCCCTTGA TACTCATCCA
289051 GAAACCTAGG GTGAGAATAC CTGTGTTAAC TGTTTTTAAA AATTTCATG
289101 ACATGTTTGG TCAGGGGAGA AGAATGTTCT GTGACAAGTG CCAGTTTTAC
289151 TGGTGAGGTA GAAAAGGCCT TAGAAGGTGC TAGTAAGACA GAAAAAGAAC
289201 TGTAGGAAGA AATCAGTATC GGAGAGCACA GAGATCCTCA ATCCTTGGAT
289251 ATATACCACC CAGTGAAGCA GATCAGAAAG ACCTATATTT TATAGTGCTG
289301 TCACAACATA CAAGCTGGAA AGCACCCTAT TATATGTGAA TTGGCCACAG
289351 CTAAGAGTAA ATGATTGAAA TCTTTTAAAA CTTTTAGTTA CATTGTTTAC
289401 AATTTGGGGT AAATGTCTAG ATAAGTCATT TAAATTTTTT CACCTAAACT
289451 CATAATTTTG CTTCAGAGT CCTAACGAGT AGTGAAATGG AGATTAATCT
289501 TGAAAATCCC ATTAGCTTAC ATCACTAGAA GCACCTTGTG CACCTGCTTC
289551 CTGGACGTAG AAGAGTAAAC CTGTGGTTGT CCAGTTCTAG GTGGTAGCTT
289601 TAAGATACTG CAGGCGAAGA CATATATTTG TGACCAGCAG ATTACAAACA
289651 AGCAAGAAAG TGTAATCCCA TTCTGCTATA TTTTAAATGG ACAGGATTGG
289701 ATATATCTTT CTAATCATAG AAGACGCTCG GAAGAAAATG GTTCTGTCAG
289751 AGGGAAATTA ATGTATTGAA GGTGGGAACA AGATTTTGGT TTTTACATAC
289801 ACATTTCTGT ACTGTTTGT TTTGCTATTG TTTTACCATG AGTTTGTATT
289851 ACTCAATAAA ATAACAAAAA TGGTGAGATC AGGAAGGACA CCTTTTCTTG
289901 CTATGTAGAT TATTTTGGC TCATCCTTGG TTCTTAGTT TCCATTTCCT
289951 TACAGTATTT TCCAGTTACT CGTTTTTAA AATCTGTGGG GTCTGTCCAT
290001 AGTTTTTCTT TTTTCTTGT CTGATTAATA GCCTCCCAAT TTATTTCTC
290051 ATGGCCTGCA TACAACCTAG ACCCTCCTAT TGAACGTGAA ACCTTCTACC
290101 TATTCACCCC TCTACACAGA TCAAGCATCA TTTTCTTGT TTAAGTGT
290151 CAGTTGTTCC GTGATTTTTG TTCTATGCC TTAGGAGATT ATTGTTTACA
290201 AAGAACTAAA GTATTTTTAG TTTATTTGTT TAAGCTACCC TCAAAAGATA
290251 ATAATAGCA AAAGAAACAC CGTAAGAACA TACCAAAATT CCACTGAAAG
290301 CTAAGTAGGG AATGTTGGCT TCCAATCTTA GCTAGAAAAT GATCAAAATT
290351 CGATACTGGT TGATTTTTTA AAATATGAAT TGTGAGTCAT ATTCAAAAAG
290401 AGCCACAGCT TGCAGTTGTA GTCCCAAAC AAAGTAGGTA TAGATAGATA
290451 GTTCCAAGAG ATCATCTGTA TTACAGGGAT CAGGCAAAAT TGCTTTCACC

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FIGURE 3EEEE

290501 TGGAGAGCCG TTTGCATGGA AATACAGCAT GGTTAGAGGT AGCCCTCTGG  
290551 ATCCGACTGC TTGCTTCAAA TCAAACTGCA CTTTCACTGT GCTTAACCTC  
290601 AGTCAAGTTA CTTGCTTCTT TTGGCTTTAA TGTTATCTTG CATAAAAAATC  
290651 AGTATATTTA AAATACCTCA CTAGTTTGTT ACATGATTAA ATGAGACAAT  
290701 GTATATAAAA TAACACAGAG CCTGTTATAT GGTACTTTT AGCCATTAAC  
290751 AGCATAATCA TAAAATATCA CATTATAAAG TTGCAAGAGA TTCTTTCCAT  
290801 ACCTCCTCAA AAGAGTTTTT ACTTGGACCT TCAGCATTTT GAAGCTATGT  
290851 CACCAAGTGGC AGTCTTTTTG ACTTCATATA CCTTCCAAAT AAGTAGTTTT  
290901 ATTTTCAAAA AGCTGAATGC TATAGTAATG GTGTTTATCA AATATGTTAC  
290951 CAATATTTGA AGTTTTGATA CCATTTCTTA TATGCAGATT GATCTTCGTG  
291001 TACAAGCTAA AGCTAAACCG TGCTAACAAAT ATTTAATGGG TATACATCCT  
291051 GTATAGAATA AAATATTTCC TGAATTTTCT TTTCCTTTTC CAGAATTTTA  
291101 TACATACATG CTCATGGAAG CACACACAAG CACACCTCTC TGTGCCCTAA  
291151 CAACAACAAA AATCTTATAA GTTTAGACTT CTTTTGATTA AAATCATATG  
291201 GTTAGTCCCA AAACACAAA TATATTTTTA ATTTAAGTAA AAGAGGACAC  
291251 TCCAACAAAA CTAGTATTCA CTGCACCTCT GAGCATAGCA CACATCCTTT  
291301 CTGAGTTCAG GTGGGTACAA TTAGCTGCTA GTAAAAATGA ACCATTAGTG  
291351 AAGTCAGTGA ATATTAAATG TGGGACTTAC AAGGCTAGGA ATGACAAATA  
291401 ATGGGAAAAA ACATTTTGTA CTCTAATTTT AAAAAGAACT ATTTAGGAGA  
291451 CAGCTGTAGC TGGGGTAGCT TTCTCTTGTA GAGGCATTGT CTCCATTGTT  
291501 GAGGGTTGGT ACTGTCTAAA GTTAAACCAT TTCAGTGATG CCTAGCATGG  
291551 AACACTTGAC AACCAACCTT CCAGGTAGGA AATGAGACGT CCTTGCCAGC  
291601 AAGTCCATAT AATACTACAA TTTTATGAC TAGACTATTT TTGCAGAAGT  
291651 ACTTATTGCT TAATTGACAT TAACTTAAG TAAGTCTATC TCTTCTCTT  
291701 AAAAAATATC TTAATAACAA ATAGAAATCT TTAGTATCCC AGTCTAATC  
291751 AGTTTAGTCC TATTTAGTTT GGGATAAGAA AGTAATGTAT CAGTTATTTT  
291801 GGCAAATTAT TTATAGAAGC TATGTGGAAT AAGCTGTATC TATTTAGATT  
291851 TTATATAATT TGGTAATTAG CATACAATAG CTTACATGAA ATAAATTTCT  
291901 GAAATAGTAG AAATTATGAG TAATCCACT GGGCTTACTC TTGTCTTAGA  
291951 TTACATAGAT ATAAGTATTC TTGGGCATTT TGATGCTAGA CCAATGATTT  
292001 ATAATATCAA ATACATTTAT TTTTAATACC AACAAAGGTC ACTGGGGTTC  
292051 AAAGAAGTAA GATTAAGCAG TCAAGGAAAC GTGTGGGACA ATAGTAACAC  
292101 AAATACTACT TTTAATGCCC TCAGTTGCTT TACTGTTAGT AGAAAGTTTA  
292151 GTAAATAAAA CAGATGACAG ATCTCATATC AGAGTAAACC TAGCAATAGG  
292201 GCATTAACAT TGATCTTATT AAAATACAGT TGACCTTTTG AACACCACAG  
292251 GTTTGAATTG CACAGGTTCA CTTATATGTG GATTTTTTTC AATAAATATA  
292301 TTGGAAAAAT TTTTGGACAT TTTTGATAAT GAGGAAAAAC CATGTGGCCT  
292351 AGAAATATAA AAAAAATTAA GAAAAATGT CATGAATGTA TTAAATATGT  
292401 ATATACTAGT CTATTTTACC ATTTACTAAC ATGAAATATA CACAAATCTA  
292451 TTATAAAAAG TTAATAATTAT CAAAACCTAC ACACACAAAC ACTACTCAGC  
292501 CTTAAGACGA TAAGGATGAA GACATGAAGA CCTTTATGAT CTGCTTCCAC  
292551 TTAATGAATA GTAAATATAT TTTATCTTCT TTATGATTTT ATTAACCTTT  
292601 TTTCTCTAGC TCATCTTATT ATAAGAATAC AGTATATAAT ACATATAAAA  
292651 TACAAATAT GTGTCAGGCT ATGTTATTGG TAAGGCTTCC AGTCAATAAT  
292701 AGGCTATTAG TAGTTAAATT TTTTGGAGAG TCTCAGGTTA AAGGAGAATT  
292751 TTTGATGTGT GTAGGGTTTG GCACCTCTAG CCCCCATGCT TTTTGTGCAT  
292801 CAACTGTAAT TCATTTTGCC TGCATGATAA CTGCTTATTT TTTAAGATAT  
292851 ATTTTGAAGA TCCTAAATAA TATCATGTTG ATATAGAAAC ATTCCATTTT  
292901 CATTGTGAAT TAAAATTGAA AAAATTTTAA TTCTTCCATT TACCTTGACT  
292951 ATCACAATA CATGTAATGA TTTTTTAAAC CCAGTCTAGA GCTGAACCAG  
293001 TTAAGACAAA ATTGACATAA CAGATTTGCC CACTTTTCCA TTAAATATTT  
293051 TTATCCCTAA TCAGGCCCTC AAGTTACCTG CTAATGCTAA TTGTATGACT  
293101 TGGGGTAATA TGGATCAATT ATTGTATTTT TTAAAGGCTA GAAATTTATTG  
293151 GATAAATTGT GGAAATTTTA ATTATTTCTA GACCTCATTT GTAGAATAAA  
293201 GTTTAATCAG AATGTTTGAG CTAAAGGAAA TCCTAGATGT CATGTGCCAG  
293251 TCCCTCTCCT TTTACAGATA AGAAAACGTG AAGCTCTAGA AATTAATATC  
293301 TTTGCCATTA TCATCAGTAT ATGAGAACAG ACCTGCAAAA GTGAACTCAT  
293351 TTATTTCAAT AGCCCATCCT TTTTCCCCC TTATGCCACA ATGCCCTCTA  
293401 ACTTTTAATT TCCTACAGT TCACTCTTCT TCCCAAAGTG CTCCTTCTGT  
293451 TAATTAATAT TTTTCTACC TTCCCTCCAC ACCAACTAAA GAAAAATTCC  
293501 TAGTGCTAT TTCTCTCAG CCTCTAGGGA TATTTATTGC CTGAATGAAT  
293551 CTCTTCAGTA GCATTTTCAA AAGTGTGACA AGATGAAAAG GACATTTCTA  
293601 TGTCAGAGGA ACTCTTTAGG GCTTTACTAA TACGAAAGGT ATTCTGTCTA  
293651 TGAATCTGCC CTAGTTACAG TCTTCTTCT TCTCTCTGT TTTTACTTTC  
293701 ACTCTGAAC TACATGGGTT CTCTAAAAAC TTAGGTTATT TTTGGTTTTA  
293751 ACTATATGAT CTCCTAGTAG GGCAAGTATA AAAGGACAAG GTATACATAT  
293801 GTTTAAAGTC TTGTCTTTT ATGCCTGCCT TACCTACTGA ATCTAAAAAT  
293851 GGTAATTAAG TATTATAGAC ATTGAGGTCC CAGAATTTTA TATCTCAAGA  
293901 CAAAAAAGA ATATAGGCAG CACAATGTCA TGAGATTTGA CCTATGACAG  
293951 GTTTTCTTG AATGTTTCTA GGAGGTATTC CACTGGCTTT TTTTCAATAT

FIGURE 3FFFF

294001	CAGACATCAC	CATATTATGC	TTTTTTAAAC	GTATGTAGAT	AAAAGTGAAT
294051	GTGGAACATA	AATTTCACACA	GTCTTCCTGG	AAGGTGGTTA	ATATATAATA
294101	TAAAAACTTC	AAGTACTCAC	CTTTTGTCCT	ATAAATTCCTA	TTTTTAAAC
294151	TTTGTCTAG	ATAATAAGAC	AAATAATCCA	AGATTGAATC	TGCCTTAGAG
294201	AGTTGCTTTA	AGGATTATTG	CATATACACT	ATATCTACAT	AACAGAATGA
294251	GAAACTATTA	AAATGGTGAT	ACATATATCT	GTATGCATTA	ACATTAAAAG
294301	AAGTTCATGC	ATTTATTAAC	TGGAAAAGTA	GATTACAAAA	CTATAAATAA
294351	CACAACATTT	ATGTAAAACT	ATGTATGTTA	CAATGGTCTG	GAAAATTGTT
294401	CCCCAACTG	CTAACAGAGC	CATCAGGTTT	ATTATTTTTA	CTTTTTTTTT
294451	TTTTTTTTAA	AGAAAACAAAG	CCTCACTCTG	TCACCCAGGC	CAGAGCACAG
294501	TGGTGCACTC	ATAGTTCAGT	GTAGCTTCAG	ACTCCTAGTC	TTTTGCCCTCA
294551	GCCTTCTGAG	TAGCTGGGAC	TGCAGGTGCA	CACCACTTTG	CCTTGCCAGT
294601	TTTTTCAAAT	TTTTTTTGTA	GAGGTGGGGA	AGTGGAGGGG	CTCACTTTGT
294651	TGCCCCAGACT	GGTCTCATGT	CTCCTGGCTT	CAAGTGGTCC	TTCCACCTTG
294701	GCTTCCCAAA	ATGCTGGGAT	ACAGGTATGA	GCCACCATGT	CCAGACAATT
294751	TTTACTTTTT	AATTAATGTT	AATCAACATT	ATAGCAATAT	TGTATATAAT
294801	AAATATGAAC	CACTTTTATA	GTCAGAGAAA	GCAATGAAAT	TATTTTTATT
294851	TTAAAAACAA	ACCAATATGTA	CATAGCCTTG	GTATTTACTA	GCAGTATGAC
294901	TTTTAAGTTG	TTACACACTT	CCTCATTTGT	AAAAGGGTGT	AAATGTCAGT
294951	CATATTCCCA	TCCCATCTTC	CTCCCCATTT	ATGAATCCTG	AGCCCCGTGT
295001	GGCTCCATTA	ACAGCTGGAG	TAAATGCCTT	TTGACAGATG	TGAGGGTCAG
295051	ATTTCTCATC	AGCAACTTCC	TTAGCAGAAG	CAGTGTGTTT	AAATAGAAAA
295101	GGTGGAGGGA	AACCAAGATG	TTGACAGAGC	CTAGAAGAGA	AGTTAGCATG
295151	ATGATCTAAA	GGAGTATTTG	CAAAGTCCAG	AATTATGTGG	CTATTTTAAG
295201	ACTGTCTTTA	GTTTTATTGT	CATTAACTTA	ATGAGTTTCA	GGAAAGAGGG
295251	AATGTCTCTT	TTGATTCAAT	TTGATTCAAC	AGTTTTATTT	TTAGGTATAT
295301	ACAGAGGAGA	ATTCTCTTGG	TTAAAAATAA	AAAAGGAAAA	CTTACACAGC
295351	TGAAGTGAAT	GGTACTCTGA	AGTATCTGTG	GGGAGACTGT	AGTTAGTGAC
295401	TTGTGTCAAT	CCCCTTCCAC	CCATACCAGA	TCCTTTCTCT	TGAGACATGG
295451	GTGCTTTTCC	CTGGCTAGTC	TTAGAAGCAA	TCACATTTTT	ATATAATGAA
295501	CTCTGAGGGG	TTTAAAAATG	AGTGAGACAT	GGTATCCTGG	AGTGCAGCAT
295551	ATGCTCTGTC	AGCATTTACA	GGTTTGTTTG	TTTTTTCTCT	CTCTTTACTT
295601	TTCCATTTAG	TAGCACTAG	GCCATAAACC	CGTTTTAATT	TATTCACCTGA
295651	GAAGGAAATG	ACATAATATT	CACCTGCTGT	GCTGCATAGG	TCATCAATTTC
295701	CCTGGGACTC	AGGATTACAT	CTGAGCTGAT	ATCAGACTCC	CTCTCCCAG
295751	GATAGTAAAA	TTTGAAGTCT	GTGTGTGAGG	GGCCTGCAGT	GTAAGTATTC
295801	GAGAAGTFTT	GTTCAAAGTA	TTTCTTTTCC	AAAAAGCAGG	AATTAGAGAA
295851	GCAAGAATAC	AGGAGCAGGA	TGGTGATTTA	GGAATTTTAG	CTTAAGATTTC
295901	CTTTACAATT	TCTTCTCCTA	AGAAATTTTA	GCTCTCTTTA	ACAGTGTGGT
295951	TGTCAAGTAT	GCTAGTGAAT	CTTACAAAAA	TTATGCAACT	GGAGAAATGA
296001	AATTATTTGC	TATTTGTAAT	GGCTTATGTG	CAGGCAAAAT	AAAAGTAGGC
296051	AATGGATGGA	AGAAAACAGA	GACTTTTGCT	TTATTAAGGT	GAAGTGAATT
296101	TCACCTCCTT	TTATCGTTTG	AAGTATTGAG	AGGTTTTTGT	TAGAGTGTTT
296151	TGTTTGGAAG	AGTTATACAG	ATTTTGCTTT	TAAGAACAAA	ATTTTAAATC
296201	TCTCTAAGAG	GTTTAGTATT	GAGTGGCAAT	TATTTTGTTT	ACTTGTCTGT
296251	CTTCTCTGTT	GACTATGAAC	TCCTTCGTGG	TGGAGATGGT	GTGCTTATG
296301	TTTGATAAGT	CCAATCCAG	ACTCATAAAT	GTTTATTTGG	TTGGATAATT
296351	AGCAAATTAA	TTAATTTTGC	CTGTTAATGC	AGATAATTTT	GCTTAAAAAT
296401	AGTTTTACAT	AAACACATAT	ACATACATAC	ATACATACAT	ACATACATAC
296451	ATACATACAT	ACATACAGTG	GGCCTAGCTT	CTATTTTCTG	CTGCTTTCAA
296501	CTTAAGCTTG	GGAATATTTT	TGCTATAGCT	ATTTACAAAG	TTTTTGCAAT
296551	AAAGGATTAA	ATCACTCTAA	GTTGAGTGGG	AATTGGAAGG	AGCAATAATA
296601	TTGGGGCTAT	TTTTAAAAATG	TCTGTATGCT	GGAGAATAGG	AAATGGTTAA
296651	CTATGGCCAG	ACCTATACCC	TAGCATATCT	AAATCTATTA	CAAAAGTGAA
296701	TTAACCAGCT	TATTAAGTTT	TTCTAGAGAG	ACAGATCCAA	TAGGAGCCAT
296751	TTATTATCTA	GATCTATATA	TGAGTTTATT	AGGGAGCACT	GGCTCATGTG
296801	ATAACACTGT	GAAGTCCCAT	GATAGGCTAT	CTACAAGCTG	GGGGAAGACA
296851	AAAGCTGATA	GGGGGCCAG	TCCAAGTCAT	AAAGCCTTAA	AACCAGGGAA
296901	TCCGACAGTG	CAGTTATCAG	TCTGTGGCTG	AAAGCCTGAG	AGCCTCCAGG
296951	AGGCCGCTGG	TACAATTCCA	CAGTCCAAAG	GCTGGATAAC	CTGGAGTATG
297001	ATGTTTCAGGA	TAGTAAGAG	AGGAGGCAAG	CGTCTGACAC	AGGTAGAAAAG
297051	AGAAAGCCAG	AAGTCTCAGC	AAACTGCTTA	TACCCCTTCT	CCTGCCTGTT
297101	TTGTTGTAGC	TGCTGGCGGC	CATTGGATGG	CACCTGCATT	GAAGGGTATT
297151	GCTTTCAGTC	CATCAACTCA	AATGTCAGTC	TCCTCTGACA	ACACCCCTCAC
297201	AGACACACCC	AGTAACAATT	CTTTACCAGC	CATCTAGGCA	TCCCTCGGTT
297251	CAGTCACACC	TAATATTAAC	TAACCGTCAC	AACCGCCATT	CCCCATATTA
297301	GTACTTAGTG	TGCTAAGTCA	GTGCAAAATG	TGGGACACTT	AATTTACATA
297351	ATTTCTTTTT	ATATTTTAAT	TCCTGTGAAT	AATATGTGTG	CTCTTAAGTA
297401	TTTATAAACA	TAAACATAGA	AAAACAAACA	CTTGTGATTT	TTATATTTCT
297451	GAGTTTAAGG	AAATATATTT	AATCTATTTT	AGGCAGTTAA	AATATAATTT

FIGURE 3GGGG



297501 TACTTGTGCA TGTGTATAAA ATATTTCTCA AAGTAGTACT CTGTAACAAG  
297551 AAAACCTTGA CCTGTTTTCT TC AAAATGAAT ATAAGCTCTA ATAAATAGAC  
297601 ATTTGTTCAA TCTCTGAAGT ATTTAACTGT AATGAGTTGA AAAAAAATTT  
297651 TTTTTTTTTT GAGACAGAGT TTGCTCTCTG TTGCCAGGC TGGAGTGCAG  
297701 TGGTGAGATC TTGGCTCACT GCAACCTCCG CCTTTCTGTT TCAAGCGATT  
297751 CTCCTGCCTC AGCCTCCCGA GTAGCTGAGA CTACAGGCAC ATGCCACCAT  
297801 GCCCAGCTAA TTTTTGTAT TTTTAGTAGA GACGGGGTTT CACCATGTTG  
297851 GCGGGGATGG TCTCGATCTC TTGACCTTGT GGTCCACCTG CCTCGCCTC  
297901 CCAAGTGCT GGGATTACAG GCGTGAGCCA CTGCACCCGG CAGAAAATCT  
297951 TAAATCTATA CTATAGAGTC TGACAAGAAT TTGGGACCCA AAAGCAATAT  
298001 AATTCTATTA CATATTTATC TTAACAAGTA ACATTTTAAA AGTCCATGTA  
298051 ATTTATAGAT TTATTTGCTT TCTCTAACAA GTAATGCTTC TAATAAAAAT  
298101 CTGGGCTGG TGGGGTGGCT CATGCCTGTT ATCCAGCAT TTTGGGAGGC  
298151 TGAGGTGGAC GCATCACAAG ATCAGGAGTT CCAGACCAGC CTGGCCGATG  
298201 TGGTGAACCC CTGCCTCTAC TAAAAATAGA AAAAAAATTT AGCTGGGTGT  
298251 GGTGGTGAC CCCTGTAATC CCAGCTGCTT GGGAGGCTGA GACAAAGGAA  
298301 GTGCTAGAAC CCGGAGGCA GGGGTTGCAG TGAGCTGAGA TGGCAGCACT  
298351 GCACTCCAGC CTAGGCAACA GAGCAAGACT CCAACTCAAA AAAAAAAAAA  
298401 AAAAAAAAAA ACCTGGAGTT AAAATTAAT TTAGCATATA ACTTAACAAC  
298451 AACTTAAAT TACCTCTGTT GTCACATATT CTAGTTGCTA GTGATTTTTA  
298501 GCAGTGATT TGTGTATT AATGAGCTAA AAACCTCTTC AGCTTATAAT  
298551 GGTTAATCAG TTTTAAATG AATTTACCAA TTTTGTAAAT AAACAAAATC  
298601 AATCATTTTG GAGGCTCAGG TAGTCATAAT ATTGTGTAAG ATTGGCACAT  
298651 GTTTTTATGA GGTAAATTTA TGTGGTGTCC TAACCTCATA AATTTGATAC  
298701 ATGAACGACA TAGGACATTT TAAAAAACCT ACATAGTGTC TTACATCAAC  
298751 TATGTAGTAT CCTATGTAGT GTGTATCTCT GGGAAATTTT TTTAGTGATT  
298801 GTCTCCGTAG CACTGCAGCT GCCTGTCTAG TTGTAGCCA CTGGCCACAT  
298851 GTGGCTATTG AGCACCCTGAA ATGTGGCTTT TCCAGCACCT GAAGTGGGGC  
298901 TTTTCCAAAT GGAGATGTGA GTTTTTGTGT GTTGTGTTGT TTTATTTGAG  
298951 ACAGGGTCTC ACTCTGTAC CCAGGCTGGG GTGGGGTGGC ACAATCATAG  
299001 CTCAGTGCAG CCTAGACCTC CTGGGCTCAA GCAATCCTCC CACCTAAGCC  
299051 TCTTGAGTAG CTGGAACCTAC AGGCATGCAT CACCATACTC GGGAAATTTT  
299101 TTAATTTTTA TTTTTTTGTA GAGATGTGGT CTCATTGTGT TGCCCAAGCT  
299151 GGTCTCAAAC TCGTAGGCTC AAGCAATCTT CCTCCCTCAG CCTCCCAAAG  
299201 TGCTAGAACT ACAGGCGTGA GCCACTGCAC CTGGCCTGAG ATGTCTTTTA  
299251 TACACCAGAT TTTGAAGACT ATTCAAAAAC AATGTAAAAT ATTTTAAAC  
299301 AATTGTTAAC ATTGATTTTT AAATGATGAT ATTCCTGGAAT ATTGGATTGA  
299351 ATATATTACA TTTGTTTTAC TTTTTTAAAA ACCTTTAAAA TATAGTTTCT  
299401 TAAAAAATGT AAAAAATGGC AGGCACAGTG GCTCACACTT GTAATCCTAG  
299451 CACTTTGGGA GACCGAGGTG AGCAGATCAC CTGAAGTCAG GAGTTCGAGA  
299501 CCAGCCTGCC CAACATGGTG AAACCCCGTC TCTACTAAAA ATACAAAAAA  
299551 ATTAGACAGG CATAGTGGCA CGTGCTTGTA ATCCAGCTA CTCAGGAGGC  
299601 TGAGGCAGGA GAATCATTTG AACCCGGGAG GCGGAGGTTG CAGTGAGCCA  
299651 AAATTGCGCC ACTGCATTCC AGCCTGAGCA ACAAGAACAA AAACCTCCATC  
299701 TCAAAAAAAA AAAGTAAAAT TATATTTGTA GCTCATACTA TATTTCTTTT  
299751 GAACAACACT GATCTAAAGT GCTATGTTTT TCATTGTCCG TTTAAATGGA  
299801 TTATGATGTA ATTAGACTAG AGATCTCATG GGTTTTAGAA CTAAAATGTT  
299851 CTGGGGTCAG ATGTGCTTTC TGGCTTTTAC TTATTTGTAT TTTCTGGCCTC  
299901 AGTTGTACCC GAAAATAAAT TTTTGTGGA AATACAGTTT GTCCTGAGCT  
299951 AATAGAGGAA CATGATTTAC CTTCAATTCT GGAGAGCTAG TAAAATAATT  
300001 TAGAACACTA TGTCAAGAAT GATTCTTTCT CACTCATAAC ACTTCTTTGT  
300051 GTGCTGTGTA TTTTAAATAT CAAAATTCTC CTTTAAAACT CTGGGATAGA  
300101 TGTTCACAT GTTTCTTCTT GACCTAAAAG GTGTCATTTT CAGGCACCAA  
300151 AAGTCTTAA ACACTAATAT TCTGGTATGT AGCTGCTGAT GAAAAATGTA  
300201 CTCTTAGCA AATCCTAAGC TGGATACACA TAAAATCACA CAAGGCATAG  
300251 CATGATAAAA TTGTATAAAA CCAATGATAA AGAGGAAAAT TTTTTAGTT  
300301 ATGTTATGGT AAGAACATTT AACATGAGGT CTACCTTTAA AAATTTTTTT  
300351 TCAGTGTATA ATACAGTATT ACCAACTGTA GGTGTAATGT CATACAGTAG  
300401 ATGTGTAGAA CTAACTGAA GCATTGCTTC ACTGAAGCAT TATGCCCTGT  
300451 GATTAGTAAC TCCTCATTTT CCCCTCTCCC CAGCACCTGG TAACCATCTT  
300501 TCTACTCTTT GATTCTATGA ATTTATCTAT TTTAGATACC TCAGTTAAGT  
300551 AGAATCATGC TATTTGTCTT TGTGTGACTG GTTTATATTA CTAGCATAA  
300601 TGCCTTCAAG TTTTCATCCAT GTTATCCCAT ATGGCAGAAT TTCCTTCTTT  
300651 TTAAAGACTG AATAATATAC CATCATATGT ATATGCCACA TTTTCTTTAA  
300701 TCCATTCACT TGATAGATGGA CATTTAAGTT GTTTCCACAT CTTGGCTCTT  
300751 TGAATAGTG CTGCATGAAC GTGAGGGTGC TAATATGTCT TTGAGATCCT  
300801 GGTTTTAATT CTTCTTGACA AATACCCAGA AGTGGGATTG CTGGATTAAT  
300851 ATGGTAATTC TATTTTAATT TTTTGAGGAA CGTTCTTACT CTTTCCATA  
300901 GCAGGTGCAT CATTTTGACG TCTCATCAAC AGTGTGCAAG GATTCCAGTT  
300951 TTTCCACATC CTCACCAACT TTTATTGCCT TTTATTCTT TGATTATAGC

FIGURE 3HHHH



301001 CATGCTGACA GGTCTGAGGT GAAGGCTCAT TGTAAGTTTG ATTTACATTTC  
301051 CCTCAGTGAG TACTGACATT GAGTAATTTT TCATATACCT GTTGCCCATTC  
301101 TGTATATTTT CTTTGAAAA ATGTCGCTC AACTCCTTAG CCCATTTTTA  
301151 ATTTGGGTTG TATTGGTCCA CTCTCACACT GCTATAAAAA AATACCTGAG  
301201 ATGGGGTAAT TTATAAAGAA AAAAAGGTTT AATTCATTAA TGGTTCCACA  
301251 AGCTATCCAG GAAACATGGC TGGGGAGGCC TCAGGAAACT TCCAATCATG  
301301 GCAGAAGGCA AAGGGGAAGC AGGCACATCT TCATATGGCC AGAGCAAGAG  
301351 GAAGAGAGAG GCAGAAGGTG CCACATACAT TTGAGCAACC AAATCTCACA  
301401 GCTACCACAA GAGCAGCACC AAGGGGAACA TTCTCCCCCA TGGTCCAATC  
301451 ACCTCCCCACC AGGCCCCACC TCCAACACTA GGGATTATGA TTAAACATGA  
301501 GATTGTGGCG GGGACCCAAA CCATATCATG GGTATTGGG GTATTTTITA  
301551 AATTGAGTTG TAGGGGTTCC TTATATATTT TGGAGACTAA CCCCTAATAT  
301601 TGGATACATG GTTTGCAAAT GTTTTCTCCA ATTCAGTAGG TTGCTTTTTC  
301651 ACTCTGTGCA TTGTTCTCTT TGCTTGCGAG AAACCTTTTA GTTTGATACA  
301701 GCCCCACTAG TTTATTTCTA TTTTTCATT CTGTGCTTTT ACTGTCATAT  
301751 TCATGAAATT ATCACCAGGA CCAATGTCAT TAAGCTTTTC CCTTATGATT  
301801 TCTGTAGGAG TTTTACAGCT TTAAGTCATA TGTTTAAATC TTTAATCCTT  
301851 TTTGAGTTGA TTTTGTATA TGATGTAAGA TAAGGGTCCA ATTTCAATTGT  
301901 TTTGTTTTTG GGTATCTAGT TTTCCAGCA CCATTTATTT ATTTATTTGT  
301951 TTTGTTGAGT CATCTCTCT TTTCTTTTTT TTCTTTTCTT TTTTAAATT  
302001 ATACTTTAAG TTTTAGGGCA CATGTGCACA ACGTGCAGGT TTGTTACATA  
302051 TGTATACATG TGCCATGTTG GTGTGCTGCA CCCATTAACCT CGTCATTAA  
302101 TTTAGGTATA TCTCTAATG CTATCCCTCC ACCCTCCCCC CATCCACAA  
302151 CAGGCCCGGT TGTGTGATGT TCCCCTTCT GTGTCCATGT GTTCTTATTG  
302201 TTCATTTCCC ACCTGTGAGT GAGAACATGC GGTGTTTGGT TTTTGTCTT  
302251 TGCGATAGTT TGCTGAGAAT GATGGTTTCC AGCTTCATCC ATGTCCCTAC  
302301 AAAGGACATG AACTCATCAT TTTTATGGC TACATAGTAT TCCATGGTGA  
302351 ATATGTGCCA CATTTTCTTA ATCCAGTCTA TCATTGTTGG ACCTTTGGGT  
302401 TGGTTCAGG TCCTTGCTAT TGTGAATAGT GCCCAATAA ACATACCTGT  
302451 GCCTGTGCTT TTATAGCAGC ATGATTTATA ATCATTGCGG TATATACCCA  
302501 GTAATGGGAT GGCTGGGTCA AATGGTATTT CTAGTTCTAG ATCCCTGAGG  
302551 AATCGCCACA CTGACTTCCA CAATGGTTGA ACTAGTTTAC AGTCCACCA  
302601 ACAGTGTAAG AGTGCTCCTA TTTCTCCACA TCCTCTCCAG CACCTGTTGT  
302651 TTCTGACTT TATAATGATC GCCATTCTAA CTGTTGTGAG ATGGTATCTC  
302701 ATTTGTTGTT TGATTTGCAT TTCTCTGATG GCCAGTGATG ATGACCATT  
302751 TTTCATGTGT CTTTGGCTG CATAAATGTC TTCTTTTGAG AAGTGTCTGT  
302801 TCATATCCTT CACCCACTTG TTGATGGAGT TGTGTTGTTT TTTCTTGTA  
302851 ATTTGTTTGA GTTCATTGTA AATTCTGGAT ATTAGCCCTT TGTGAGATGA  
302901 GTAGATTGCA AAAATTTTCT CCCATTCTGT AGGTGCGCTG TTCACGCTGA  
302951 TGGTAGTTTC TTTTGTCTG CAGAAGTTCT TTAGTTTATT AGATCCCAT  
303001 TGTCATTTT GGCTTTTGT GCCATTGCTT TTGGTGTTTT AGACATGAAG  
303051 TTCTTGACCA TGCTATGTC CTGAATGGTG TTGCTAGGT TTTCTCTAG  
303101 GGTTTTTATG GTTTTAGGTC TAACATTTAA GTCTTTAATC CATCTGAAT  
303151 TAATTTTTGT ATAAGGTGTA AGGAAGGGAT CCAGTTTCAG CTTTCTACAT  
303201 ATGGCTAGCC AGTTTTCCCA GCACCATTTA TTAACATAAG AATCCTTTCC  
303251 CCATTTCTTG TTTTGTGTC GTTTGTCAA GATCAGATAG TTATAGATAT  
303301 GTGGCATTAT TTCTGAGGGC TCTGTTCTGT TCCATTGGTC TATATCTCTG  
303351 TTTTGATACC AGTACCATGC TGTTTTGGTT ACTGTAGCCT TGATAGTAG  
303401 TTTGAAGTCA GGTAGCATGA TGCTCCAGC TTTGTTCTTT TGGCTTAGGA  
303451 TTGACTTGGC AATGTAGGCT CTTTTTTGGT TCCATATGAA CTTTCAAGTA  
303501 GTTTTTTCCA ATTTCTGTGA GAAAGTCATT GGTAGTTTGA TGGGGATGGC  
303551 ATTGAATCTG TAAATTACCT TGGGCAGTGT GGCCATTTTC ACGATATCGA  
303601 TTCTTCTAC CCATGAGCAT GGAATGTTCT TCCATTTGTT CGTATCCTCT  
303651 TTTATTTTCT TGAGCAGTGG TTGTAGTTC TCCTGAAGA GGTCTTTTAC  
303701 ATCCTTTGTA AGTTGGATTC CTAGGTATTT TATTCTCTTT GAAGAAATTG  
303751 TGAATGGGAG TTCACTCATG ATTTGGTTCT CTGTTTGTCT GTTATTGGTG  
303801 TATAAGAACC CTTGTGATTT TTGCACATTG ATTTTGTATC CTGAGAGTTT  
303851 GCTGAAGTTG CTTATCAGCT TAAGGAGACT TTGGGCTGAG ACGAAGGGGT  
303901 TTTCTAGATA TACAGTCATG TCATCTGCAA ACAGGGACAA TTTGACTTCC  
303951 TCTTTTCTTA ATTGAATACC CTTTATTTCC TTCTCTTCC TGATTGCCCT  
304001 GGCCAGAACT TCCAACACTA TGTGAAATAG GAGTGGTGAC AGAGGGCATC  
304051 CCTGTCTTGT GCCAGTTTTC AAAGGGAATG CTTCCAGTTT TTGCCCATTC  
304101 AGTATGATAT TGGCTGTGGG TTTGTCATAG ATAGCTCTTA CTATTTTGAG  
304151 ATACGTCCCA TCAATACCTA ATTTATTGAG AGTTTITAGC ATGAAGGGTT  
304201 GTTGAATTTT GTCAAAGGCC TTTTCTGCAT CTATTGAGAT AATCGTGGTT  
304251 TTTGCTTTTG GTTCTGTTTA TATGCTGGAT TACATTTACT GATTTGTGTA  
304301 TGTGTAACCA GCCTTGATC CCAGGAATGA AGCCCACTTG ATCATGGTGG  
304351 ATAAGCTTTT TGATGGGCTG CTGGATTCCG TTTGCCAGTA TTTTATTGAA  
304401 GATTTTTTGA TCGATGTTCA TCAGGGATAT TAGTCTAAAA TTCTCTTTT  
304451 TTGTTGTGTC TCTGCCAGTC TTTGGTATCA GGATGATGCT GGCCTCATAA

FIGURE 3IIII

304501 AATGAGTTAG GAAGGATTCC CTCTCTTCCT GTTGATTGGA ATAGTTTCAG  
304551 AAGGAATGGT ACCAGCTCCT CCTTGTAACCT CTGGTAGAAT TTGGCTGTGA  
304601 ATCCATCTGG TCCTGGACTT TTTTTCGTTG GTAAGCTATT AATTATTGCC  
304651 TCAATTTTCAG AGCCTGTTAT TGGTCTATTTC AGAGATTCAA CTCTCTCCTG  
304701 TTTTAGTCTT GGGAGGGTGT ATGTGTGAG GAATGTACCC ATTTCTTCTA  
304751 GATTTTCCAG TTTATTTGCA TAGAGGTGTT TATAATATTC TCTGATGGTA  
304801 GTTTGTATTT CTGTGGGATC GGTGGTGATA TCCCTTTTAT CATTTTTTAT  
304851 TGCATCTATT TGATTCTTCT CTCTTTTCTT CTTTATTAGT CTGCTAGCG  
304901 GTCTATCAAT TTTGTGTATC TTTTCAGAAA ACCAGCTCCT GGATTCATTG  
304951 ATTTTITGAA AGGTTTTTTG TGTGTCTATT TCCTTCAGTT CTGCTCTGAT  
305001 CTTAGTTATT TCTTGCCCTC TGCTAGCTTT TGAATGTGTT TGCTCTTCT  
305051 TCTCTAGTTC TTTTAATTGT GATGTCAGGG TATCAATTTT AGATCTTTCC  
305101 TGCTTTCTCT TGTGGGCATT TAGTGCTATA AATTTCCCTC TACACACTGC  
305151 TTTGAATGTG TCCCAGAGAT TCTGGTACGT TGTGTCTTTG TTCTCGTTGG  
305201 TTTCAAAGAA CATCTGTATT TCTGCCCTCA TTTTATTATG TACCCAGTAG  
305251 TCATTACAGA GCAGGTTGTT CAGTTTCCAT GTAGTTGAGC GGTTTTGAGT  
305301 GAGTTTCTTA ATCTGAGTT CTAGTTTGAT TGCCTGTGG TCTGAGAGAC  
305351 AGTCTGTTAT AATTTCTGTT CTTTTACATT TGCTGAGGAG AGCTTTACTT  
305401 CCAACTATGT GGTCAATTTT GGAATAGGTA TGGTGTGGTG CTGAAAAGAA  
305451 TGTATATTCT GTTGATTTGA GGTGGAGAGT TCTGTAGATG TCTATTAGGT  
305501 CCACCTGGTT AAGAGCTGAG TTCAATTCCT GGGTATCCTT GTTAACTTTC  
305551 TGTCTCGTTG ATCTGTCTAA TGTTGACAGT GGGGTGTTAA AGTCTCCCAT  
305601 TATTATTGTG TGGGAGTCTA AGTCTCTTTG TAGGTCCCTA AGGACTTGCT  
305651 TTGTGAATCT GGGTGCTCTT GTATTGTGTG CATATATATT TAGGATAGTT  
305701 AGCTCTCTCT TTTGAATTGA TCCCTTTTACC ATTATGTAAT GGCTCTCTTT  
305751 GTCTCTTTTG ATCTTTGTGT GTTTAAAGTC TGTTTTATCA GAGACTAGGA  
305801 TTGCAACCCC TGCTTTTTTT TGTTTTCCAT TTGCTTGGTA GATCTTCCTC  
305851 CATCTCTTTG TTTTGAGCCT ATGTGTGTCT CTGTACATGA GATTTTGAGA  
305901 TGAGTTTCTT GAATACAGCA CACTGATGGG TCTTGACTCT TTATCCAGTT  
305951 TGCCAGTCCG TGTATTTTAA TTGGAGCATT TAGCCCATTT ACATTTAAGG  
306001 TTAATATTGT TATGTGTGAA TTTGATCCTG TCATTATGAT GTTAGCTGGT  
306051 TATTTTGCTC GTTAGTTGAT GCAGTTTCTT CCTAGCCTTG ATGGTCTTTA  
306101 CAATTTGGCA TGTTTTGGCA GTGGCTGGTA CCGGTGTGTC CTTTCCATGT  
306151 TTAGTCCAGC CACCATTTAT TAAAGAGGAA AATCTTAAAA GCAACTGGAG  
306201 AAAAAAAAAA GATAAGATAC AGATTAATAA GGTAATAATT CTTATTCCCT  
306251 ATAGAAGCCA TGCAAAGCAG AACACAAGGA AATGACATAT TTCAAGTGCT  
306301 AAGTGGATGA ATCTCAGTCA GATTATTCGG AATACTAATA GCGTTCATTT  
306351 ATTTAGTACA TTTGTAAAC CAGAAATTAT GCTGATTATT TTAATATGCA  
306401 TTATCTCATT TAATCCTTAC AGCAACCCGG AGAGGCAACT AGAATTAACA  
306451 CATTTTAGAG GTGAAGAAAA TGAGGCTAAG AGAAGCCAAG GGACTTGGCT  
306501 AATAAATGTT ACACACTTAG CAAATGGAAA ATTCAGGATT TCAAACCAGA  
306551 TATGATTAAC ATAAGCCATG TCTCCTCTTA CTATTAACCA TAACTGGTAG  
306601 AACATATACA TAACTTAAAT TTGATAGGTA AGCTGATTGG AGGCTATTTG  
306651 TTGTGGTACG AATGTTTGAA AATTGCTGTC AGTCAGCAAG TATTTATCAA  
306701 GCACATTAGA TATTCAGGC TGGAACTGGA ATGGAATCAT GAACAATACA  
306751 AGTATGGTTC TTTATCCTTA TGGAGCTTAT AAATGTCTAA GGAAAAGAAA  
306801 TGTGGTAATT CTAGGTACTT CTGAGGATGG TTCTAAGGAT TAAATGATAT  
306851 ATTAATAAAA ACCAGACAAA TTTCTGGCAT ATAACATTTA TGTTCATAAA  
306901 TTTTAAGTAT TTAATAAAT AGTTATAAGT AGTCTAAGTG TTCTGAATAA  
306951 GTGCCAAGTG CTGTGGAAGG ACATTGGAGG GAAAAAGCTA ACATAGTCTG  
307001 GGAGATTAGG AAAGGCTTCC CTGAGTTATT GATTTTAAAG CAGAATCTGA  
307051 TGAGTGAATA ATCTGTTAGC CAGAGCAAAG AGATTGGACA CAAAAGATCA  
307101 TTATATTCAA AGGGCTGCAC ATTTGATAAG ACATTGCAGA GGTTGAAGAG  
307151 AGCATAGTAT GTTCTTATTC TAAAGACAGT GGGAAACAAA TGAAGCTTTT  
307201 TAAGGATGTG GGTGGAGGGT TGCTGGCAAT AATCATGTTA GCCTTAAAAA  
307251 ATCATTTTCA CATTCCAGCA ACCTCTAAGA ACAGTCTTTG AGGAATGTGG  
307301 CAAGAGTAGA CACGAGGATA AATGTGAGGA AGTGGTTCAA ACAGTGGGAA  
307351 CAGAACAAAG TGGACAAAGC TACTTACATG GAATATACAA AATTTGGCAA  
307401 TTTTGGATGT AGGAAAGGAG AAAGAAGATG CACAGTTCTT AGGTTTCTGG  
307451 GATGATGGAA ATGCCGTTTC CTGAGAATGG AAATATCGCA AGTTTGTAGA  
307501 GAAAATTATT AGATATCTTT ATTTGGATAT ACCTGTATGC TGTGTCAATT  
307551 AGAGAGATAT CAAGTAGGCA GTTTGACACA CTGGTGCTCT GAGGAGAAAT  
307601 TTGGACCCAA TATCTAGATT TTGGGAATCA TTTATATGCA TACTTTAGAG  
307651 ATATCGTATG TTCGGTTCCA GATCAGCAAA ATAAAGTGAG TTTCTCAATC  
307701 TATTAATGTG GCAAAGAAT TATGTCTAAA AAAACAATTT TTTTATTGT  
307751 TTCAGAATAC TTTATTGCTA AAAAAATGCT AGCAATCATC TGAGCCTTCA  
307801 GCAAATCATA GTCTTTGCTG GTGGGTCTTG CCTCCATAAA GATGACTGCT  
307851 GACTGATCAG GGTGGTGGTT GCTGAAGGTT GAAGTGGCTA TGGCAGTTTC  
307901 TTAAGATTAA CAGTGAAGTT TGCCACATCC ATTGACTCTT GTTTTCAGGA  
307951 AAGATTTCCT CATAGCATGT GATGCTGCTT GGCAACATTT TACCCACAAT

FIGURE 3JJJJ

308001 ATAACCTTTTA AAACCTGGAGT CAATTCTCTC TGCCACTGCT TTATCAACTA  
308051 AGTTTATGTA ATATCCTGAA TTATTTGTG ACATTTTCAGT AAGGTTTCACA  
308101 GCGTCTTCAC CAGGAGTAGA TTTTCATGCA AGAAACCACT TTCTTGCTC  
308151 ATCCATAAGA AACAATTCTT CATTCAGTT TTTTCATGAG ATTCCTGCAA  
308201 TTCAGTCATA ATTTTCAGGCT CCACCTCTAA TCCTAGTTCT ATTCCTATTT  
308251 TCACCCCAT TGCAGTTACT TCCCTCCACT GAAGTCTTAA ACCCCTCAAA  
308301 GTTATTCGTG AGGGTTGGAA TCAACTTCTT CCACACCCCT GTTAATGTG  
308351 ATATTTTGAC CTCCCTGAA TCATGAATTG ACCTTCTCCC CTGAGTCATG  
308401 AATGTTCTTA ATGACATCTA GAATAGTGAA TCCTTTCCAG AAAGTTTTC  
308451 GTTTACTTTG CCCATATTCA TTAGAGGAAT CACTATCTAT GACTGCTGTA  
308501 GCCCTACAAG ATGTATTTCT TAATAAGACT TGGGAGTCTA AATTATTTCT  
308551 TAATTCATGA GTTGCAGAAT GGATGTTGTG TTAACAAGGC TTGAAAACAA  
308601 CACTAATCTA CATCTCCATC AGAGTTGTG GCTGACTAGG TACACTGAAA  
308651 ATGATCAGTA ATATTTTGAA AGGAATCATT TTATCTGAGT AGTAAGTTTC  
308701 AACAGTGGG TTAATAATC CAGTAATCAT GCTATAAACA AAGTGTGTG  
308751 TTGCAGGCTT GGTGTTTCCA TTTATAGAGA CAGGAAGAGT AGACTTAGCA  
308801 TATTCCTTAAG AGCCCTAGGA TTTTCAGAAG GGTAAATGAG CACTGGCTTC  
308851 AACTTATATT TACCAACTGC ATTAGCCCC AACAAGAGAG TCAGCCTATC  
308901 CTTTGAAGTT TTGAAGCCAG GCATTGATTT CTCTCTAGCT ATGAAAGTCC  
308951 TAGATGACAT CTTCCTTCAA TATAAGGCTG TTTTCATCTAC ATTGAATATC  
309001 TGTGTTTAG TGTGGCCACC TTCTCTCAAT ACCTTAGCAA CATGTTTTAA  
309051 ATAACCTGCT GCAATTTCTG TATCATCACT TGCTGCCTGA CCATGCACTT  
309101 TTATGTTATA AAGACTGCTT CTTTTCTTAA ACTTCATCAA CCAACCTCTG  
309151 CTAGCTTCAA ACTTTCTTCT GCAGCTTCTT CACCTCTCTC AGCCTTCACA  
309201 GAATTTGAAGA GGGTTAGGG CTGCTTTGG ATTAGGCTT GGCTTCAAGG  
309251 AATGTTGTG TGGTTTGAT CTTTTATCCA GATCACTCGA AGTTTCTCCA  
309301 TATCATCAGT AAGACTGTT TGCTCTCTTA GTATTCATGT GTTCACTAGA  
309351 GTAGCACAAAT TTCTTGAAG AGTTTTCTCT TAGCATTAC AATTTCCTTA  
309401 CTGATTGGCA GAGGAGGCCT AGCTTTTGGC CTTTCTCAGT TTTCAATGCA  
309451 CCTGCTTCAC AAAGCTTCAT CACTTCTAGC TTTTATGTA AAGTGAGAGA  
309501 TGTGGGACTC TTCTTTTCA TTAATACTT AAAGGCCATT GTAGGGTTAT  
309551 TCATTGGCCT AATTTTATTA TTATTGTGAC TCAGGGCATA GGAAGGCCCA  
309601 AGGAGAGGAA GAAAAGCAGG GAACAACCAG TTGGTGGAAC AATCAGAATA  
309651 CACACAACAT TTGTCACTTA AGTTTACCAT CTTATATGGG CATGTTTGT  
309701 GGTGACCCAA AATAATTACA GTAAAACAT CAAAGAACAG TGATCACAGG  
309751 TCACCATAAT AAATATTATA ATAATGAAAA GTTTAAATG TTGCAAAATT  
309801 ACCAAAAATG GACACAAAGA CAAGAAGTGA GCACATGCTG TTGGAATAAT  
309851 GGCTGCAGTA GACTTGCTCA ATGCAGGGT GCCACAATTT ACAATATAAT  
309901 ACATTGTATT ATAAAAATA CAATATCTGC AGAGCCCACT AAAGCATAGT  
309951 GCAATAAAAT GAGGTGTGCT TGTATTTATA GATGATATCT AAAGTCAAAG  
310001 AATGGGTGGA ACAGTGAAGA CGAAGAAAAA GAAGAAAGTT AAGTATAAGC  
310051 TCTGAGGCAC TTCAACTTTT AAATTTAGCC AGAGGGGGAG GAGCCAGCAA  
310101 GTAACAATGC ATGAATAGGA ATATCTAGAG AAATAAGAGG TATAATGTGG  
310151 AGTGTACGAA GCCAAAAGCG AAGTGTGTTA AGAACAAGAG TGATGTTTAT  
310201 CTTTTCCAAT CCTGCTGAAA ATTAGGGCAA GATACAGACA GAAAAGGCAT  
310251 TTCTTAAAT TTTAACAACC TGGAAATTCAT TCATGATTTT AACAAGATTC  
310301 ATTTTGGTGG AGTGAGAGGG ACAGATTTGA GTCAGCTGAG AAAAGTGTGA  
310351 CAAATGAGGA ACCAGAGACA GAGCTTAAAC AATTCTTTAG CTATGAGTGT  
310401 GGAAGAAAGA GATTGGGCAA TAGCTAAGAC AGGATAATGT GTTGAACGAG  
310451 GGTTTTTAGT AGGCAGGAGA TATCTGATGG AAAAGAGCAA ATAGAGAACT  
310501 TGAAGATACT GCATTGGGGG ATGATTGCAG TGCAATGTTA TGTCGTGGCA  
310551 GAATGAGGTG GGATTGGGAG AGATTGCTCT TAGATAAGAA GAATTGCTGG  
310601 TCTGATGTAA AGTTAGGCAA AATATTTTAA AACATACTAT TAAAGCTAAC  
310651 TGTCAATTCT TAGCATCACA ATGAAATCAT GAAAACCCCG CAGGTGCTTC  
310701 GCAGTTCCTA CAGGGAATCT TCCTTGTTAC AACAACAACA AAGCAAAAGA  
310751 AGACACCAA CCGACCAACA GCAAGGAGTA ATATTGAATA TTCAAAAAATA  
310801 AAATCTATT CTGACTTCA AATCATTAAA GTAGAGCTGC CTATTTAAGA  
310851 ACTTTTATTT GCACAGTCT ATTAATTTTA ATGCCTAAAG CAGTGTTAAT  
310901 CGCATGACCC ACGTGAAGA ATTTTAAAAA TTGCTTTGTT AGAAAAATGA  
310951 ATAGACTTGT CGTTAAAGTT TTCAAACCT TTTTAAAGA TTTGTAATAT  
311001 TTGGCTAGAG TTCCATTTAT TTTCTTTAAA AAAATTATGT ACACACACAC  
311051 ACGCACACAC ACACACACAC ACAGTCACT CTATCCCGCA CCCTCAGAGA  
311101 AAGTTTGAGA TTATACAGCC ACATCTGTCA GAGCTGTGCT AACCTATGTC  
311151 ATCCATCTGT TCTGGTTATA TTTCTCTCC CTTTCTCTC TTTTCTTCC  
311201 ATTCTCCCA GCCTTTAAAA GAAAAAAGT TGAGAGTAAA ACAAATCAC  
311251 CTCTTTTAT ATGAAATTT AAGGTGGAAG AAAAGTGGT ATAAAAAGCAT  
311301 CTATCATCAT AGCACTGACT TGCCAAGTTA AGTATTTAGG TTGGAAATCA  
311351 TGCTTTTCCA ACTGCTTAAA AACAGGAAG ATCTCTGCTA AGTGATAAAT  
311401 AGCTCCCTGT TGCTGGAAAG GAAGGCTCT TTTATTTCT TCTACATTTT  
311451 TGAGCAATAA TAAATGAGTT CTGCATTTTC ATACATGGGT GTATGTGTGT

FIGURE 3KKKK

311501	GTGTGTGTGT	GTGTATAATG	CAGAAATCCA	TTTGAGTGT	TTATGTATAC
311551	ATATATACCT	CAGTATATGT	AAATATATGT	GAAAAACTT	TCCAAGACTT
311601	TAAGCATAGA	ATCTCTTCTC	ATAAGCCAGC	CCAGGCACAT	CTTACTCAAC
311651	AATTCAAGCA	AAACCTTTGG	ATCTGTCAAG	AACAGCTTAT	AGGTCCGGCAT
311701	TAGGTGATTA	ATTGCCAGGA	GAATCTGGTT	CTATATTTTG	TTACATATAA
311751	TTATTTTCTT	TTCTAAAGGT	GTTCTTTTAT	TAAGCTCCCA	CCATAAAAAGA
311801	GGGGAAAATA	AGCACACGTC	TTACATGCCT	GATGTTTAGC	ACTTCTTACA
311851	AAAGAAAGAG	GAAAACTTTA	ACATAATCCA	CTGATAAAAG	CATATTTTGT
311901	TTGGCTTCAG	ACAGTTTTCT	CCTCATTTTT	ACCAAAACTT	TAATAATATT
311951	TTAACTTGTG	TAGAAATTAG	TCTTGGGATA	GCAGTATGGA	ATAATGGAAT
312001	ATACTTTGGT	TATACAATCT	GACGGTATAA	AATTAAACCT	TAGTTCACAT
312051	TCTATCCTTA	ATGCTTACTA	CCACTCTGAC	CTTTTACAAT	TACTTAACGT
312101	CTTCAAGCTT	TTATTTCCCT	TTTTGTAAAT	TGACTATAAG	AATACATATC
312151	TCCTTTTGAG	TGTTACTGTG	AGGATTGCAC	TAATTACCAT	AGTAAAGCAC
312201	TTATTACAGT	TCTGAAAAAT	TAGTAGGAAC	CCAATAACAT	TACCATTTTA
312251	AACATTATTA	GTTTGTCTAT	TCTAAGCTCT	GCCACTTAAT	CATGTATGAC
312301	TCAATATCAA	TATTACCTCC	ATGGGCCTCA	GTCCTCTCAG	TAAATACAGG
312351	AGTTTAGAAA	TGGAAGAATT	TTTTGTGAGA	CTAATGTCTT	GTGATTCTCT
312401	AATTATCTTC	ATATCAAATG	AAGAAAAAGT	ATTTTCATTT	TAGATACAAA
312451	TTATTTCTTA	CCCCATAACT	GACAAAGCAA	GGAATATGGC	TTCTACAATG
312501	TAATTTCTGC	TTTACTTTTG	ACTGAGTATT	CATAAGACTT	CTTTTGGTGT
312551	TGATTATGGT	CTCTAGAGCG	AGACTGCCAA	TATTTCAATT	CTGGCTCCCC
312601	ACCACTTACC	AGCTATGTAA	CTTTAGGCCA	ATTATTTAAC	CTCTCTCTAA
312651	CTCAGTTTTA	TTATCTATAA	AGTGAGACTA	ATAATAGTAC	CTCGCCTTCC
312701	GGCTGTGTGT	GCAGATTAAA	GGAGTTTTAT	GTAAGCTCAT	TCATGAATTT
312751	TATGTAAAAG	AGTTTGAACA	ATATCAAGCA	TATTTGTACAT	TTACATGCA
312801	CATATTATTG	TTGTCAATCAT	TGTCATTGTC	TGGAATAACA	TCAATTGCCT
312851	CTAACCATAG	CATGGGAATA	CTGTAATAGA	TGAATAAGAG	TTTGACTATC
312901	TGAAATGCAC	TTCTAGCACC	ATAGGCTTTG	ATAAGTATCT	TACTAATGAC
312951	AGATCTCTAA	ATATGCATGC	ACATAACCAAT	AGAGTGAGGG	AAGAAAAATTT
313001	AGAAACATAC	TCATGACTAT	TTTATGTACC	ATTCTTTTTA	ATGTACACTT
313051	TTGTGTTGTA	TACAATATAT	TAATACAAGA	AGGCATGTGT	ATGCTTTCTG
313101	ACTAAACATT	AAAAAATGGG	GGAAAAGTGC	TCACATAGTT	TTTACTAATA
313151	TGAATGAATG	ATCAAAAAAC	TTTGGAGACA	GCTGTCTCTAG	GAGACAGTGT
313201	CTTCCAAAGG	TGGTGTTAAC	TTGACCTCGC	CATCAGTCTC	AGTTGTCTGC
313251	CCTGTACTAG	ATGGAGATGA	ACATGTATTG	AAGAAGCAAA	TCAAACCTTC
313301	ATGACTCCAG	AGAGTCTGGA	AAGACCACAA	CGAGTAGTCC	TTTGCTAAAG
313351	ATAGAAATAG	TGTAGTATGG	AATCCAAGTT	ATTCTGACTA	TGTCAACTAC
313401	TTGGTGTGAC	TGTAATATCA	AATACCTGAG	AGATGTCAAA	TAAATCATTC
313451	CTTTTCAGTA	CTCATATTTG	GACTTCACCA	TGGAAGAAAA	TACTGCTGTT
313501	CTCAGTGCCC	AGGGACTACA	AAACCACATT	CCCACAGAAT	AACCAAAATTC
313551	CTTTTCTGCT	TATGTTTAAC	AGCAGTGCAA	CTGGGCTTTT	CTAATAGATT
313601	TTAAACTTTT	TGTTATAAAT	ATTGTTACCT	CCACGGAAGT	GAGGAAATTA
313651	TATTTTAAAT	CTATTCTGCT	TAGAAAATAC	CACAAATAAA	GGAAAAATCAA
313701	TAAATTTCTT	TCTTAAGTGG	ATACATTTTA	AAGCAGAGTT	ACCAATATTT
313751	GAAAATAACT	CAAAATGAAC	TTCTTTCTCT	CTAAGAAGTT	CTCATAAATGG
313801	GTTGATATGA	CCCATGTGTT	AGTACATAGA	TACCTAGGAG	TAAATGCCCC
313851	CACCTGCTTT	GGGTAATGTA	TTTTTGGGGG	GAATCTGATA	GATACACTCT
313901	CCTGAAAATA	CAAAATACAA	ATTTTACAC	GTAATAATTA	GCCTACAGTT
313951	TCAAGGCTTC	ATAGATACTG	TTTTCCCTAA	ACGCATTCAA	GAACCTTTAG
314001	GTAACGTAGA	TCTTCTGGAT	GTGAAAGGGA	TGTAGCTACA	TATACATTCC
314051	AACCCATAAG	CAACTGTGTC	ATCATTGCAG	TTTATGATAA	GCTTTCTGTA
314101	AACCCCTTCA	TTTCTAGGTT	TGGCTTCAAA	AGTCATTGGT	GCAATTCCTA
314151	ATTACATAGT	TACGTCTTGT	TTTTTAAACGC	TTGAAATAGT	GTTAAAATGA
314201	TGGCATCTGC	ATTATCTCTT	TGCTGTGTGA	TATTTGCTTA	TTATGTTTTA
314251	ATTATTTAAA	TTTTTATGAG	GCCACCATGT	AAGTTATAAT	CTGAATCTTC
314301	CCAAAGATAT	ATTGCTTAC	ATTCTGCCAC	AGAATTAAAA	TGACAAAAAT
314351	AGTGCATCTC	ATAGCAAAGA	CATAGAGTTC	CACTTTACAG	ATGAGAAAGC
314401	TAAGGCTTAA	GAGCACTTAG	AGTGATTGGA	TTCAATTTATG	AGGTAAGGGA
314451	CTGTCCACGT	TCACCTATGA	GGCTTTTTTA	AACTAACTTG	TACAAGCCAT
314501	ATCTCTCAAA	GTCTAGTCTA	GGAACCTTCT	CTGTACAGAT	CAGCTGGCAA
314551	GCTTATTAAA	CATGCAGGGT	CTGACCTCTC	CCTCCAGACC	AAATGGGATG
314601	TAAATGGGGA	ACAAGATTCT	TCTAGATGAG	CAGATAAGCC	AGATGATTCC
314651	TGTGCACATT	GAGGTTTGAG	AAACCCCTGAA	AATTGGTTTA	ACTTTAACTG
314701	CACATTAGAA	TGGAAGAAAA	TAATTTGCCT	GGACCTAGAC	TGATTGATTG
314751	TCACTGGAGC	AAGGAGGTGG	AGGTAACCTA	GGTTCTTAAA	GTTCAACCAAG
314801	TGATTGTGAT	GCACAGTGAA	GGTTAAAAAC	CACACTCTTA	AAGTATTTAG
314851	AAAGTTTTCC	TGTAAGAGGC	CAGATGGTAA	ATATTTTAGA	CTTTATAGGC
314901	TACATCTGTT	ATTCTTTGTA	GCTACTCAAC	TTTGCTGACT	TAGAATGGAA
314951	ATAGCCATAG	ATAATATGCA	AATGGCTGAA	CAGGGCCATG	TTCTAACACT

FIGURE 3LLLL

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315001 TCATTTATAA AAACAGCTGG TGGGACAGAT TGTAGTTTGC CAAACCCCTAC
315051 AGAGGGGGGT ACAGTCCCTG CCATGTGCCT CAAAGGTGCT GTTAGACTGT
315101 GTTCTAAACC TGAGATGTTT CTAGTTGTTT GAAGTAAAGG TGGAAAACTA
315151 CCATATTTAA ATTCATTAC GGGCTGGGCA TGATGGCTAT AATCCCAGCA
315201 CTTTGGGAGG AGATCATAGT GACGCCACTT GAGGCCAGGA GTTCAAGACC
315251 AGCCTGGCCA ACATGGTGAA ACTGTGTCTC TACTAAAAGT ACAAAAATTA
315301 GCCAGGTGTG GTGGTGCATG CCTGTAATCA CAACTACTTG GGAGGTTGAG
315351 GCATGAGAAT CGCTTGAACC TAGGAGGTGG AGTTTGCACT GAGCTGAGAT
315401 CATGCCACTG CACTCCAGCC TGGGCGACAG AGTGAAACCT TGTCTCAAAA
315451 AAAAAAAAAA AAAAAAAAAA GAGTTCCATT CCAAGAGGGC CAAATAGGAA
315501 CAGCTCTGGT CTGCAGCTCC CAGCATGATC GACACAGAAG ATGGGTGATT
315551 TCTGCGTTTC CAACTGGGGT GACTAGTTCA TCTCATTGGG ACTGGTTGGA
315601 CAGTGGGTGC AGCCCAAGGA GAGTGAAGTG AAATAGGGTG GGGCATTGCC
315651 TCACCCAGGA ACTGGAAGGG GTTGTGGGAT TTCCCTCTCC TAGCCAAGGG
315701 AAGCCATGAC AGACGGTACC TGGAAATATCG CTACACTCCT GCCCAAATAC
315751 TGCGCTTTTC CCATGGTCTT AGCAACTGGC AGACAAGGAG ATTCTCTCCC
315801 GTGCCTGGCT TGGCAGATCC AACACCCACG GAGCCTTGCT TGCTGCTAGT
315851 GCAGCAGTTT GAGATCGACC TGCAGGCTG CAGCCTGGCA GGGGGAGGGG
315901 CATCCGCCAT TGCTGAAGCT TAAGTAGGTA AACAAAGTGG CCAGGAAGCT
315951 CAAACTGGGT GGAGCCCACT GCAGCTCAGG AAGGCCACT GCCTCCATGT
316001 ACTGTACCTC TGTAGACAGG GCATAGCTGA ACAAAGGCA GCAGTAACTT
316051 CTGCAGACTT AAACGTCCCT GTGTGACAGC TCTGAAGACA GCAGTGGTTC
316101 TCCCAGCAGC GCATTTGAGC TCTGAGAACG GACAGACTGC CTCTCAAGT
316151 GGGTCCCTGA CCCCATGTA GCCTAACTGG GAGACATCTC CCAGTAGGGG
316201 CTGACACAGA CCTCATACAG GCGGGTTTCC CTCTGCGATG AAGCTTCCAG
316251 AGGAAGGATC AGGCAGTAAT ATTTGCTGCT CGGCAGCCTC CGCTGGTGAT
316301 ACCCAGGCAA ACAGGGTCTG GAGTGGACCT CCAGCAAACCT CCAACAGACC
316351 TGTTGCTTAG GGACCTGACT GTTAGAAGAA AAATAACAA ACCAAAAGGA
316401 ATAGCATCAA CATCAACAGA AAGGACTTCC ACACAAAAAC CCCATCTGTA
316451 GGTCAACCAAC ATCAAAGACC AAAGGTAGAT AAAACCAACA AGATGGGGAG
316501 AAACCAAGAC AGAAAAGCTG AAAATTCTAA AAACCAAGAC GCCTCTTCTC
316551 CTCCAAAGGA TCACAGCTCC TTGCCAGCAA CAGAACAAAG CTGGATTGGAG
316601 AATGACTTTG ACGAGCTGAC AGAAGTGGGA TTCAGAAGGT CAATAATAAC
316651 AAACCTCTCC AAGCTAAAGA AGCGTGTCTT AACCCATTGC GAGGAAGCTA
316701 AAAACCTTGA AAAAAGGTGA GACAAATGGC TAACTAGAAT AAACAGTGTA
316751 GAGAAGACCT TAAATGACCT GATGGAGCTG AAAACCATGG TATGAGAACT
316801 TCGTGACACA TGCAAAACT TCAGTAGCCA ATTCATCAAA GTGGAAGAAA
316851 GGATATCAGT GATTGAAGAT CAAATGAAAG AAATGAAGCG AGAAGAGAAG
316901 TTTAGAGAAA AAAGAGTAAA AAGAACAAAG CCTCCAAGAA ATATGGGACT
316951 ATGTGAAAAG ACCAAATCTA CATTTGATTG GTGTACCTGA AAGTCACGGG
317001 GAGAATGGAA CCAAGTTAGA AAACACTCTT CAGGATATTA TCCAGGAGAA
317051 CTTCCCAAC ATAGCAAGGC AGGCCAACAT TCAAAATTCAG GAAATACAGA
317101 GAACACCACA AAGATACTCC TCAAGAAGAG CAACCCCAAG ACACATAATT
317151 CTCGATTCA CCAAGGTTGA AATGAAGGAA AAAATGTTAA GGGTAGCCTG
317201 AGAGAAAGGT CAGATTACCC ACTAACGGAA GCCCATCAGA CTAACAGCGG
317251 CTCTCTCGGG CAGAAATCAT ACAAGCCAGA AGAGAGTGGG GGTCAAGATT
317301 CAACATCTT AAAAGAATTT TCAACCCAGA ATTTGATATC CAGCCAACT
317351 AAGCTTCATA AGTGAAGGAT AAATAAAATC CATTACAGAC AAGCAAATGC
317401 TGAGAGATTT TGTCAACCAC AGGCCTGCCT TACAAGAGCT CCTGAAGGAA
317451 GCACTAAACA AGGAAAGGAA CAACCAGTAC CAGCCACTGC AAAAACATGC
317501 CAAATTGTAA AGACCATCGA TGCTTTGAAG AAAGTGCATC AATTAACAGG
317551 CAAAATACCC ATCTAACATC ATAATGACAG GATTAAATTC ACACATAACA
317601 ATACTAAGCT TAAATGTAAA TGGCTAAAT GCGCCAATTA AAAGACACAG
317651 ACTGGCAAAT TGGATAGAGT CAAGACCCAT CAGTGTGCTG TATTCAAGAG
317701 ACCCATCTCA TGTACAGAGA CACATACAGG CTCAAAATAA AGGAATGGAG
317751 GAAGACTCTA CAAGCAAAAG GAAAGCAAGA AAAATCATAG GTTGCAATCC
317801 TAGTCTCTGA TAAAGCAGGC TTAAACCAA CAAAGATCAA AAGAGACAAA
317851 GAAGGTCAAT ACATAATGGT AAAGGGATCA ATTCAACAAG AAGAGCTAAC
317901 TATCCTAAAT ATATATGCAC CCAATACAGG AGCACCAGCA TTCATAAAGC
317951 AATCTGGGAG ACTTTAACAC ACCACTGTCA ATATTAGATC AACGTGACAG
318001 AAGTTTAAAC AGGATATCCA GGACTTGAAC TCAGCTCTGC ACCAAGCAGA
318051 CTTAATAGAT ATCTACAGAA CTCTCCACCC CAAATCAACA GAATATACAT
318101 TCTTCTCAGC ACCACGTGCG AATTACTCTA AAATGACCA CATAATTGGA
318151 AGTAAAGCAC TCCTCAGCAA ATGTAAAAAC AGGAATCACA ACAAACTCTC
318201 TCTCTGACCA CAGTGCAATG AAATTAGAAC TCAGGATTAA GAAACTCACT
318251 CAAAACCGCA CAAGTACATG GAAACTGAAC AGAACAGCCT GCCCCTGAAT
318301 GACTACTGAG TAAATAACAA AATAAGGCAG AAATAAGGAT GTTGTTTGAA
318351 ACCAGTGAGA ACAAAGACAC AACGTACCAG AATCTCTGGG ACACATTTAA
318401 AGCAGTGTGT AGAGGGAAAT TTATAGCACT AAATGCCAC AAGAGAAAGC
318451 AGGAAAGATC TAAATTGAC ACCCTGACAT CACAATTAAA AGAACTAGAG

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FIGURE 3MMMM

10/506549

318501 AAGAAAGAGG AAACATACAA AAGCTAGCAG AAGGCAAGAA ATAACATAAGA  
318551 TCAGAGCAGA ACTGAAGGAG ATAGACACAC ACAAAAAACC CTTCAAAAA  
318601 TCAATGAATC CAGGAGCTGG TTTTGTGAAA AGATCAACAA AATTGATAGA  
318651 CTGCTAGCAA GACTAATAAA GAAGAAAAGG GAGAAGAATG AAATAGACGC  
318701 AATAAAAAAT GATAAAGGGG ATATCACACC CGATCCACAA GAAATACAAA  
318751 CTACCATCAG AGAATACTAT AAACACCTTT ACTCAAATAA ACTAGAAAAT  
318801 CTAGAAGAAA TGGATAAATT CCTGGACATA TACACCTCC CAAGACTAAA  
318851 CCAGGAAGAA GTTGAATCTC TGAATAGACC AATAACAGGT TCTGAAATTG  
318901 AGGCAATAAT TAATAGCCTA CCAACCAAAA AAGTCCAGGA CCAGACAGAT  
318951 TCACAGCCAA ATTCTACCAT AGGTACAAGG AGGAGCTGTT ACCATTCTTT  
319001 CTGAAACTAT TCCAATCAAT AGAACAAGAA GGAATCCTCC CTAACCTATT  
319051 TTATGAGGCC AGCATCATCC TAATACCAAA GCCTGGCAGA GACAAAAACA  
319101 AAAAAGAGAA TTTTAGACCA ATATCCCTGA TGAACATCGA TGCGAGAATC  
319151 CTCAATAAAA TACTGGCAAA CCGAATCCAG CAGCACATCC AAAAGCTTAT  
319201 CCACTATGAT CAAGTCAGCT TCATCCCTGG GATGCAAGGC TGTTCACAA  
319251 TACGCAAAAT AATAAATGTA ATCCATCACA TAAACAGAAC CAATGACAAA  
319301 AACCACATGA TTATCTCAAT AGATGCAGAA AAGGCTTCG AAAAAATTCA  
319351 ACAGCCGTTT ATGCTAAAAA CTCTCAATAA ACTAGGTATT GATGGAAATA  
319401 TCTCAAAATA ATAAGAGCTA TTTATGACAA ACCCAGAGCC AATATCATAC  
319451 TGAATGGGCA AAAACTGGAA GCGTTCCTTT TGAAAAACCG CAGAAGACAA  
319501 GGATGCCCTC TCTCACCCTT CCTACTCAAC ATAGTGTTAG AAGTCTAGC  
319551 CTGGGCAGTC AGGCAAGAGA AAGAAACAAA GGTATTTCAG TTTAGAAAAG  
319601 CGGAAGTCAA ATTTGCCCTG TCTGCAGATG ACATGATTGT ATATTTAAAA  
319651 ACCCCATCGT CTCAGCCCAA AATCTCCTTA TGCTGATAAG CAACCTCAGC  
319701 AAAGTCTCAG GATACAAAAT CAATGTGCAA AAATCACAAG CATTCTATA  
319751 CACCAATAAC AGACAAACAG CCAAATTGTG AGTGAACTCC CATTACAAAT  
319801 TGCTACAAAG AAAATAAGAT ACCTAGGAAT CCAACTTACA AGGGATGGGA  
319851 AGGACCTCTT CAAGGAGAAC TACAAGCCAC TGCTCAACAA AATAAAGAG  
319901 GACACAAACA AATGGAAGAT GGAAGAATC AATATTGTGA AAATATCCAT  
319951 ACTGCCCAAG GTAATGTACA GATTCAATGC TATCTCCATC AAGCTACCAA  
320001 TGATTTTCTT CACAGAATTG GAAAAAATA CTTTAAAAAT CATATGAAAC  
320051 CAAAAAGGAG CCGCATAGC CAAGACAGTA CTAAGCAAAA ACAACAAAGC  
320101 TGGAGGCATC ACATACCTG ACTTCAAAGT ATACTACAAG GCTATAGTAA  
320151 CCAAAACAGT ATGTTACTGG TACCAAAACA GATATGTAGA GAACAGAGGC  
320201 CTCAGAAATA ACACCATGCA TCTACAACCA TCTGATCTTT GACAAACCTG  
320251 ACAAAACAA GAAGTGGGGA AAGGATTCCC TATTTAATAC ATGGTGCTGG  
320301 GAAAACCTGC TAGCCATATG CAGAAAGCTG AAAGTGGATC CCTTCCCTAC  
320351 ACCTTATACA AAAATTAATT CAAGATGTAT TAAAGACTTA AATGTAAGAC  
320401 CTAAAAACAT AAAAAACCTA GAAGAAAACG TAGGCAGTGA CATTACGAGC  
320451 ATAGGCCTAG TCAAGGACTT CATGACTGAA ACACCGAAAG AAATGGCAAC  
320501 AAAAGCCAAA ATTGACAAAT GGGATCTAAT TAATCTAAAG AGCTTCTGCA  
320551 CAGCGAAAGA AACTACCATC AGAGTGAATA GGCAACCTAC AGAAGGGGAG  
320601 AAAATTTTGT CAATCTACCC ATCTGACAAA GGGCTAATAT CCAGAATCTA  
320651 CAATGAACCTC AAGACAAATTT ACAAGAAAAA AAACAACCCC ATCAAAAAGT  
320701 GGGCAAAAGG TATGAATAGA CATCCCTCAA AAGAAGACAT TTATGCAGCC  
320751 AACAGACACA TGAAAAAATG CTCATCATCA CTGGCCATCA GAGAAATGCA  
320801 AATCAAAACC ACAATGAGAT ACCATCTCAC ACCAGTTAGA ATGGTGATCA  
320851 TTAAAAAGTT GGGAAACAAC AGATGCTGGA GAGGATGTGG AGAAGTAGGA  
320901 ACGCCTTTAC ACTGTTGGTG GGAGTGTAAT TTAGTTCAAT CATTGTGGAA  
320951 GACAGTGTGG TGATTCTCTA AGGATCTAGA ACTAGAAATA CCATTTGACC  
321001 CAGCCATCCC ATTAATGGGT ATATACCCAA AGGATTATAA ATCATGCTGC  
321051 TATAAAGACA CATGCACACG TATGTTTATT GCAGCACTAT TCACGATAGT  
321101 AAAGACTTGG AACCACCCCA AATTTCCATC AGTGATAGAC TAGATTAAGA  
321151 AAATGTGGCA CAGATACACC ATGGAATACT ATGCAGCCAT AAAAAAGGAT  
321201 GAGTTCATGT CCTTTGTTGG GACATGGATG AAGCTGGGAA CCATCATTTCT  
321251 CAGCAAACTA TCAGAAGGAC AGAAAAACAA ACACCAATG TTCTCACTCA  
321301 TAGGTGGGAA TTGAACAATG AGAACACTTG GACGCAGGGC AGGGAACATC  
321351 ACACACTGGG GCCTGTCAGG TGGTGGGGGG CTGGGGGAGG GATAGCATTG  
321401 GGAGACATAC CTAATGTAAA TGATGAGTTA ATGGGGGAAG CAAACCAACA  
321451 TGGCTCATGT ATACCTATGT AATAAACCTG CAGGTTGTGC ACATGTACCC  
321501 TGTAATTAAA AAAAAAATTC AGTTACAACC AGGTGTGGTG GTTCACACCT  
321551 GTAATCTGAG CAGGAGGATC ACTTGAGTCC TGGAGTTTAG ACCAGCTGG  
321601 GCACCGTAGG GAGACCCGTC TGTCCAAAAA AATAAAATTT AAATGTAGC  
321651 CAGATGTGCT AGCACACACC TGTGGTCCCA CCTATTGGG AGGCTGAGGT  
321701 GGGAGGACCG CTTGGACCCCT GGAGGTCAAG TCTGTAGTGA GCCATGATCG  
321751 GCCTACTGCA GTCCAGCATG GCAACACAG CAAGACCCCA TCTCAATAA  
321801 ATAAATAAAA CTCAGTAAGT AATAGAGCCA GAATTTTGAA CTATGAATAG  
321851 GTAAGATTAA AAAAAAGAC ATTATTTTGT AATGTCTTGT ATTATCAGAC  
321901 AAGGTATCAG AGACAAGGAA AAAGAAAGGT GCACTGAACA GCCAAAGCAG  
321951 GACTGACGGA ACTCAGAAAT GGGCTGGGAC CAGCCTGGGA GAAAGAAAA

FIGURE 3NNNN



322001 GCAAGGCAAA GAAAAGGATA AAACAGCCCT GCTGCACTCT GGTGGGACTG  
322051 ATAAGAAATA GCTTCTGTAT CTTGGTATTT TGTACCTTAA AAAAAATTGA  
322101 GGAGTGGCAG GAATAGAAAA CAGAAACAAT GTCTCTTTGG GGTGAGAGAC  
322151 AGAAACACGC TGTTCCTCTC AGAGGATGTG GAAACATTGA TGACCTCTGC  
322201 AAGTGCAGGC AGGCAGTATC CACAGCTCTG CATCACCCTC CGGCGTCACC  
322251 ACTGTGCAAC CCATCAGTCC TGTGGTGCCC GTTCAAGTCA CATTGTATAA  
322301 ATCTGTCTTA CGGCATCTGT ATCCTCACCA TCTAATAACT TTAGCACAGA  
322351 ATATTGTTTA AGAATGATGG AGAGGGAAAA GAAGACTTTG AGTCAACAAA  
322401 ACCTTTGTTT GTTTACATTT ACCATATCAT CCATTCTTTG TAGTATATAT  
322451 CAGAAGACTT TCATTTTAGG TTTTTAAAAA TCGTTTATAT GTAATGAGTT  
322501 AAAAACCTTA GTTATCCAGA AACATATTCT GAGCAACATG TTTTGTGTAC  
322551 CACCTGCTGT CTTATATATT TCTTGTCTGC ATGCTTCTGT ATACCTAGTA  
322601 GGTGCTGTGA GGCAGATCAC CTTACATTGT GATTTCTTTT AAATTGGGAA  
322651 AAAATATATG TCCTTTGAAT ATCTTATGGT TCAGCAGGGG CATTAGAAAA  
322701 TATAAACAAAC TGTGTGTGA TATGTGCAAA AGAAATGTGA ACAATGTTTA  
322751 GGAGTAATAT AGAGAAGAAA ATGACAGTTT CTTTGTATAG AAATGATTTG  
322801 AAAGAATAAC TAGGATTTTC CTGGAGTACA TGGCCTGGGA GTAGACAGGA  
322851 CTGTTTCAGAT AAAGAGATCA CTATTTATAA ATTAGAGAGG TGTGAAGAAT  
322901 ATGCTCATAG CAATTTTAGG GGAAGTACAA GGAGTTTCACT ATTGGTAGAA  
322951 AGTAAAGGCG CTGAGGGGGT CAAATAACAG GAGACGATCG TGGGAAAAGA  
323001 AGCAGAGGAC AGGCCATTTG TCCCCACTGC CACTACTCCC TTACCCCAT  
323051 TAAGAACCCA TGGGTTTATA TATTTTAAAA TATCTTAAAA TATGTAAATA  
323101 TCTAAGTAAG TTCTTCACTC CTATTTCTATC TTATGGAGAC CCTTTTAAAA  
323151 GAGTGAATTT TATAGAGACA TAGGAAATGT TAGTTTGCAT TGTTTTCACT  
323201 TTGCCCTAT AGTTTTTTAA AAAGCAGATT CACTTTTAC AAGAGGAAGA  
323251 ATTTGGATTA GTGCTGGATA CATACTGTTT TGAATTGTAA AATGACTCTT  
323301 TAATAGAAAT GGACAAAGAA AATATGCTAA TAAAAAATCT TAAGTATGTG  
323351 TATGTGTGTG CATGCTAAAT TTTTTTTTCT TCTGTCTCT TCATTTTGTG  
323401 CTCATCATCA ATTGCTGCTA TTTACTGTGG TGCATTTTTT CTGAACACT  
323451 GCTGTCAAAT GCATCAAGTC TTTTCTTGCA CAGTGCTACA GGTTTTTGCA  
323501 GAACTGAGCA AGCCCAACAT TAGACAGATA GCCTAAAGAC TGATTGATTT  
323551 ATTTGTTTTA ATACAAATAT ACGCTCACAT GTTGACATAC AGAAATCTGT  
323601 TTCAAATGAA TTATTTTTTA AAGAACAAG AACTTTATAA CCCTAGTACC  
323651 TAATCCTATG CCTGACACAT AGTAGATACT CAGCAAATAT CTGTGGGACT  
323701 GAACTGCTCT GTGAAGCCTA GCTAAGCACT AAAGACTCCC ACAACTTTTT  
323751 CAGCTTTATG GGGAAAGTAT TATCTTAAAT AGTTTTAATG CAAATTGAAT  
323801 TATTGTTTAA AAAGCATGTC CACCAGTTGA AAAGTCAAGT CATGGAACAT  
323851 TGTTAAGATC CAGGTTTTAA TTTAGCAGAT ATTGTTCTCT TTGCAGAATA  
323901 ATTACGAATC TATTTAAAAT AAATGCTTTT TTATCTTTAT CTCCCTTTGC  
323951 ACAATGGAGT GGCATTGTCA AAAGGGGAAA GTGTCTAATA ATAAGTTGAA  
324001 AACATTGTGC AGTTATACTT CAAAGACATC TCTTAAATTG TCCTGTTTCA  
324051 GTTCACTGCC TCTGCTATTA TTCATGTTCT AATTTAGGGC CTCGAAATTG  
324101 TATTAGTTGC CTAACGTGAA GTTGCACTTC GTTCTGTGTC TTCTTCCACA  
324151 CTGCTGCCAG AATCATTTAC TTTCTTCAAC AGAAAATCAA GCCTGTCTCT  
324201 TTCTCTATTA AAAACCTGCA ATTTGCTACG GACTGTGAGA TAAGGACCAA  
324251 ACTCCTTGGC ATTACATACC ATATGTAATG TAATTATACC TGTGGATTTT  
324301 TTTTCTCAAT CTACCTTCAT GTCCCATGT TTCTAAGCAT CCTCTACCAG  
324351 TGCCTTCCAA AATTTTTCAT GACATGTAC ACATGGAATA ATAACCAGAT  
324401 GATACCACTG TCTGACTGCC TGAAGTCTCT GGCTTCTCTG AGCTTTCTGG  
324451 CCTTCTGAG ATCTGAAGGA AACAATATCT TAAGCATACC CTCTAATCCA  
324501 TTCCCACTAC AACCCTGGG AAAGTCTGCC CTACATGTGA CCACAGTAAA  
324551 CCTTTTCCGC TCCCAGGAAT GGTTTGTGCA CTGCTTTTCT TCTTTGCTTA  
324601 TAATATTCAT TCTGCCTTTT CACAGTTTCT CAATCTGGTA AATTTCCCT  
324651 CCTTGTCAAT TAAAGCCCGG CTCATTTGGA TTTGGGAAAT GTTCTGGA  
324701 TTTTTTTAAG AATATGTGAA GCTCTTTGTT TCCAATTAA GCCTTATCTT  
324751 AAATCAATTA ATTTTGACTC TTAGAAATTC TCTTTCCATT TTCTGACCCA  
324801 TTTGTAATAA CTTAATTTTA AGGTTACACC TACTGTACCA ATAATGATTT  
324851 TGTTTTTTAA AATACAAATA AAAATCTCCC TTCTTGGCT TTTTGGAAAC  
324901 AGTTTCTTTC CCCCCTAAAT TATATTGCCC ATGGTTTCAT AAATACACAT  
324951 CTCAAATGGG TTACTTATGT AAAGGGTGTG TGTGCTTACT TGGGTGCGTG  
325001 TGTGTGTGTG TGTGTATCAC TACTACTAAT ACTAACATAA ACTAAGATC  
325051 ATATATATAT CATTACTACC CACTTAGCTA TACTCTAAG TTTAAAGATC  
325101 TCAAAATACT TCTTGTGAAA AGGTTTACTA AGCCCAAGT TCTAAGAGAA  
325151 AAATTATGAA AATTGGTTTC CTTTGTTTAA CAGAGCCTAT TGCTTATTTT  
325201 AAGGGTAATT GATCTTTTGT TTTGAGACAG GGTCTCACCC TGTCACCTAG  
325251 GCTGGAGTGC AGTGGTGGAT GCTCCCTAG GCCTCAACCT CCTGGGCTCA  
325301 AGTGATCCTC CCACCTCAGC TGGGACTACA GGTGTGTGTA CCACCACACC  
325351 CCGCTAATTT TTATGTTTGT TTGTTTGTGT GTTTGTTTGT TTTGTAGAGA  
325401 TGGGGTTGCG CCATGTTGCC TAGGCTGGTC TCAAATGCCT GAGCTCAAGC  
325451 GATCTGCCTG CCTTAGCCTC CCAAAGTGCT GGGATTACAG TTTGTGTGTG

325501 GCCACTGTGC CTAGCCTGAT TGATTTTGAT CTCTAACACA TTCTCTCAT  
325551 AACTATTTCT GCTTTTCCAA AAAAGTTTTA TGTATGGGTT AGGTAAATGT  
325601 TTCTGGTTTT ATCTCATTA ATGATTGGCT TTTAGTATCA GCATGAATCA  
325651 AGTATAATTT GACTCACCTC ATCCTTAAAT TCTTACTTAA TTTGGTAATT  
325701 ATTGTGTATT TTATCATTTT CTACTAGTGT CTTAGCCTGT TGATCAAAGC  
325751 TTGCTGCAGT TAGTGTGTTG CGTGTGTATC TTCTCTACT TTTTAGTGTT  
325801 CTTAAAGGTA AGGACCAAGT CATATGCTTC TGTATTTTCC TCACAGTGCT  
325851 TTGCACAAAA AAAAAAATT GTCTAGTAGG TGTCTTTTFA GTTACTTTTA  
325901 AAGTATCTTG TGGGTAGTTA AGACTTTTTT ATTCAAATTT TATAAAAAAT  
325951 CTGTTTTTGT TTTCTGATGC CTGTTTCAGCA GATGCTTACC CAGACTGAAG  
326001 TAGTTTTACAT TCTTTTTCAA TGTCCCAAAA GCTTAATTAG CAAATAATAT  
326051 AATGCAGACT GCTCCTTGCA TAGGCTCTCA TGGATTTTAC ATACTACTGC  
326101 TTATTTTATT AGTCTCTAAA GTCATTCTTC TCCCAGTGTA ATTACACTTT  
326151 TAAAAATTAC TAAATTGCAT AAGAGATATT ATGAAATCGT ATTCTCTGAA  
326201 CATTGAGAA TTCAAGCTTT AAAAGACAGC AGCTAAAGTC AAAGATACAG  
326251 CAACATTTTC AAAAGTTAGC TTTGTACATC TCTTGGCTGA GTAATGTGAA  
326301 CCCACACATG GAAAGATTTA ATATATACAG GAATGTTCTG GGCCTCTGTA  
326351 AGAGCTGATC CCTCTATCAG GTTCTGTGTC AGACAAGCAT GTTCTTCTA  
326401 TCTATTAGGA AAGGGTTATG AATTGAGCAT TTCAGAGGCT ATGGTAAGAA  
326451 GCAGGGAGAG AAGGGGGCAA GTAGAGAAAT GCTAAATATC AATTCTTTTT  
326501 AAATATTGAG ATTTAGAAAT AAAAATCAAG AATCTGTATT TTGACTTGAC  
326551 TTTTCAATCT ATTATTCTAA CCTCGTAGCT CATTGTTCCA TTTATTCAAA  
326601 GAACATTAAC ATCTGCCATA TATTAGGAAT TCAGAGATTG CTAACATTGC  
326651 CTATGTTCAA GGATCTCATA ATCAAGTACT GAGGATAATT ATACAAGAAG  
326701 AGTAATCACT ATAATAGCAT TTAATACTTA CTGAAGCATA CATGCCATAT  
326751 GCCAAACACT GAGCTAAGCA CATTATATCA ATATAGATAT AAAAACACCT  
326801 GCTGATTGTG CCAAACACAC AGCTAATAAG TTTTGTAGCT AGAATTTTCC  
326851 TCCAGCTAAG CTGATTCTTT TGCCCTCACT TTTAACCTTG TATGCCAAAT  
326901 TACAAGTTTA AAATTCATTT ATGTACTTGG AAGAGTCATA GAAGTTTCAA  
326951 TAAAAGAGAA GACTTTTAAG CTGAGACTTG AACAAGAAGT GGAGCTTCCC  
327001 TGATAGACAA AGAGATAAAA TGTCATTCTG AGCAGAGGGA GAAATATGTG  
327051 CGAAAACAGG GAGGCAGAAA GCAGCGTGGT GAGTTTTACT AACTGGGTGT  
327101 TTAGGTGCTC CTAAGCAAGT CCAAGTTCAA GTATAGCATT TCAAGTTTCT  
327151 ATGATTTTAG TGTAACTCCT ATCTTATCTA CAGCTCCTTT TCTTTTCTCA  
327201 CAGGGTGAGA AATGCTATAC TTGAACCTGG ACTTTTTTCT TTGATGTGCA  
327251 ATTAATGAT TAGAAAATAG GAAGTTAAGG TATTTGCACT TAAAAATGATC  
327301 ACGTTAGCCA TGATGTAGAT AAAGCAAGGA AAAAGAAGGA AAGAATAAGA  
327351 CTGCAGGCAG AAAACAACCT AGCACAGCAG TTATGATATT CTAGACAAAT  
327401 GATTGTGTGG CTGTGATATC ACTGAGTAAA CATTTATTGG GTGCCCTATA  
327451 TGTGCCATAG CTGAGCTTAC AGTGTGTAAT AAAATGAATA TGATTCTCTGC  
327501 CATTACATAC AGTCTACAAT CTGTTGGGAA AGACAGACAG TAAACAAACA  
327551 CACAAATACA CAATAAAGAA GAATGGGTAG AAGTGACAGG TTTAAGAGAG  
327601 ATTTAAGTAG TGTAGCCAG GTCTATGCAT TAGTTGGATT TAGAGGAAGA  
327651 AATAGATACC TAGAATAAAT CCAAGGTTTC TTTGAGATAA TTCAGAGCCG  
327701 TTACCAAAGA TCCACCTTTC TCCCTGTTTT CTGGAACAT TCTCTCCATG  
327751 AATCATGATT CATTGATATG TTTTTATTAA AGTATAAAGG CTCAGTGCTG  
327801 CTTTCTTTTC CTAGAGGAAG GCACTCCCTA TATACACATA CACACCCTTG  
327851 TTGATTATTT TAAATGAATG GGAGCCAATG GGACCTGATT TTTCAAGGTG  
327901 TCTATTTTAA TACTTTTGTC TGAACAAGTA TTTCTATGTT AATGAAATTA  
327951 GATTTGAGCA TTTGATAGAA CATGAAACTA TAAGTGTTGA ATTTTCAGAA  
328001 TTATAAAAAA GAAAAGGCAG CCTTATAATT GTGGTATAAG GTTTGATAGT  
328051 TAAGACTCCT TCATGTGAAA TACCAGATGT TTTGAGTCCT TGATATAAAG  
328101 GTCAGAAGAA AAGAAGGATA TTGGTTTCAT AATAAATTAA CATGTTTACA  
328151 GTAATGACTA TGCAGTGTA GCTGTGGATA TTTTGTATA TAAGAAATGGC  
328201 AGGGGGTCTC AGAACTGGGG GCTGGAAGGC CCATTTAAAA GGTCATCTAA  
328251 TAGGATAATT TTTAGTCTGG AGCACACAAG CAGAGTTCAG GTGAACTCCC  
328301 TGGAAATTATT TGCAAAATTG GGAGTATTTT TCGTATGTAT AGTTTGAGGG  
328351 GAATTTCTGT CAAATGCACA TAGGCACCTG TAATTAAGA GCGCCTTCA  
328401 TTTTCACACA TGAGGAAACT GAGGCTGTTA CAGATGTAGA GACTTGCCCA  
328451 AGGTCTTGAA TAACCTCTCA GAAAGGGAGT TTGTTCTATG ATTTGTGTTT  
328501 TTTAATAAAG TTTTAATGGA CAGACCAGA TATCCAACAT GGCCTTGAGG  
328551 CCATAGGGTT CAGAAATTA GAAAGCCTTG GCTTCTTTT TCATTGAGTT  
328601 GTCATATAGT GATTTTAATA ATAATAGAAC ATGCTATTAT TCAGAATACA  
328651 TTCTTCCACC CTAATATCCC AAAACAGTAT TTTTAAAGAA ATTCTAGGAA  
328701 GGGTGTTTAC TCATTTCAGAG TTCTACAGGA AGGAAGGCTC TTTCTACTA  
328751 TTTTTTAAAG ATAACTTTCA CTGACAAGAC CAGGCCAGAA AAAGCCTAGC  
328801 TGGCTGTTGG CCCAGACAAT GTTATAATAA TCATTGAAGT ATACTCAACC  
328851 TGCAGTGCCT GAGGATAGCT ACAGCTAAAA AAAATAAATA AATAAGCACA  
328901 CACAGATGTA TGCTGAGTGT TCCAGTGACT TAGCTGACAT GTATGCTGTA  
328951 TATCCTTTGC TGTGTTCTTT CAACTATTAG AAAGGAAATT TTAAAAATAGC

FIGURE 3PPPP

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329001 CTAGAATTTA TTATTCCAAT AGGGTGAAAA GGACAAC TTC AACTTTAAAA  
329051 AAATAACCAA GCTCTCCAAG GCTGTATCCC CAGCAAGTAA ATCAATCTGG  
329101 CATATAGTAG ATGCTTAATA ATTTTTTTGA TGAGAGAATT GTTGAAGTTT  
329151 GTTAGTTATA TTTTCAGAAAG AGAATTTTGT TTGTTTCATCA ATAATGAGTA  
329201 TCATGTAGTG TCAAAATAGT AAAATTTAAA AGGACTGCTT CAACATTTAG  
329251 AAACCCGAGA TTTTCAGCGCA GTTCTGTAA GTTATTGTAC GACCTTGGGC  
329301 CTCATTTTCT TTGTCTTAAT AAGGATATAA TAATATCTAA TTCCCAAAT  
329351 TTGGGGGAAT ATTAATGAG CTACAGTATG TGAAAGATGC TTCATAGATC  
329401 CTTAAGTGCT ATATAAATAT TAATGTTATT TGCTTAGAT AACATTTTCA  
329451 ATTTTTTAAA TATGTATTTA CTGAAATCAT CTTTATTTCC TAAGTCCTGT  
329501 ATTTGTTTTA GGTAGAAAAGA AGTGATTTCC ATGATTGAAA TGGAGTTTTG  
329551 AATTCCTTGA TAAAATACAT TTTAAGGTAT ACAGAATTGT CTGCAAAGAA  
329601 TTAAAACACT CATTTTTAAG CAAGGGAAAT ATATTTATTT TATGATTTTC  
329651 CTAATTGAAT TTTTGCCAGC TAATTTGTAC GTAAGTTAAG GATTGATTGA  
329701 TATATATTGG ATAGACAATC ACCCTCTTCT AGGTATTATA ACATATACAA  
329751 AAAGATATACA ACAGCATTTT CCAAAGTGA AAAGAAATAT TAGTTTTTGA  
329801 GATGTTCCAT GATTAGAGTT TGGGAATTTA AAATAGAATT TTTACATACT  
329851 ACCATAGGTT TCTCCTAGAT ATTTTTATTA CCCATTAATA TAATTTCCAA  
329901 AAATTCCTTC ATATAGAAAC CTATACAAAC CTTTTATTTT GTTCTACAC  
329951 AGTGTTATCC AAATTTATTT AACAAGAAAA CCCTTTTTTC CATTACATTT  
330001 GTTAACATTC ACTCGAGTAT TTTATAAAGC ACTGGTATGA GATATGATGA  
330051 TATGACCCCA TGGATTTGAA CAGTCTGTTT GGAACCTCAA GTATGAACAT  
330101 GGTGAAGTAC ATTAAAACAA AACAAAACAA AAAAAATAA AACAAATTAA  
330151 CTATGAGATT GTGAAATGGT TGTAATATAT GTCACCAAAT TCATGGCTAA  
330201 ATCATAGAAA TTGATCTGTC ACAGCTTGTT AAATAAGTAT TCTTTCTCTT  
330251 ACATGACTTC TTACGTGATT TTTTCCAAAC TGCTTAGTCA AAGAAGATAA  
330301 TCTTTCCAGA TAGAGAAAAT TTTAAAATAT CTTTATTCCT CTTTAAATTT  
330351 ACTGATTTAT AAATACTGGG AGTCTAACAA ATGCAAGTTA CTACTCTTTA  
330401 TTAATCCCTT TTATTTAGTT TCAGTTTACA CACAATAATT GTATCAACTT  
330451 ATATGTACAA GTCAATTAAT TTAGACTTGT GTAAACCTGT GAAACCACTT  
330501 CTGCAATTAA GGTGCAGAAC ATCCCATCA CCCTCAAAAG ATTGCTTTTG  
330551 CCCTTTTGCA GTCCATTTTT CCCTCTTCCT CAGGTTGCAG TCAACCACTA  
330601 GTCTGCTTTT TGCTACTATA GATTAGATTG GACTTTGTAA ATATTTTATA  
330651 TAAATGCAGT ATGTACTCTC TTATGTCTGT TCTATTTGAT TCAGCATGAT  
330701 GAGACTCATG CACATTGTTG AGTGTTCAGT ATTTCTTTTC TATTGTTGAG  
330751 TAGTATTTCA TTATATATTT TGACTATTCA CTCATAAGTT GGTAGACATT  
330801 TGGGTTGTTT ACAATTTTAC TATTGTGAAT AAAGCTACTG TGGGCTGGGC  
330851 ACAGTGACTC ACACCTGTAA TCTCAGCACT TTGGGAGGCC AAGGTGGGTG  
330901 GATCACTTGG ACATGGGTGT TTGAGACCAG CCTGGGCAGC ATGGCAAGAC  
330951 CCCATCTTTA CTGAAAATAC AAAAGAAATA GCTGGGGCTG GGCACGGTGG  
331001 CTCAAGCCTG TAATCCGAGC ACTTTGGGAG GCCGTGGCAG GCAGATCACC  
331051 TGAGGCTCTG AGTTCAAGAC CAGCCTGGCC AGTATGGCAA AACCCCATCT  
331101 CTACTAAAAA TACAAAAAAT TAGCCAGCGG TGGTGGTGGG CGCCTGTAAT  
331151 CCCAGCTACT TGGGAGGCTG AGGCAGGAGA ATTGCTCGAA CCCAGGAGGC  
331201 AGAGGTTGCA GTGAGCAAAG ACTGCACCAC TGCACTTCCA GCCTGGGCAA  
331251 CAAGAGCGAA ACTCCACCTC AAAAAAAAAA AAAAAATAGC TGGGCATGGT  
331301 GGTGCATACC TGTGGTCCCA GCTACCTGGG AGGCTGAGAA GAGAGTATCA  
331351 CTTGAGTGCA GAGGTTGGAG ATTGCAGTGA GCCAAGATCA CATCACTGCA  
331401 CTCTAGCCTG GGTGACAGAG TGAGACTCTG TCTCAAAAAA ATAAAAATTG  
331451 TGAACCTCCA TATACAAGTC TTTGTGTAGA TATGGGTTTT TTCTTCTTAG  
331501 GTAACATCT AGATTATTTT ACAATAATTG GGTGTGTTATG ATGTGGTGGG  
331551 TTTAATCTT TAAGAAGCTG ACAAATAGCT TTCCAAAGTG GTTGTCTAT  
331601 TTTATATTCC CATTAAAGT GTATGTAATT TCTAGTTGCT CCATGTCCTT  
331651 GATCGGCTT TGGTATTGTT AGTGTCTTTA ATTTTCATCA TTCTTATAAT  
331701 GTAATGGTAT CTCAATTGTT CTTAAATTTG CATTGATCTG ATAACATAATG  
331751 ATGTTAAGTA TCTTTTCACA TACTTACCTC ACAAAGGAAG CTGTGTGGTT  
331801 AGCAAGTATG TTCAAATTTT TAGTCCAGTT ACTTTGGATT ATTTTCTTAT  
331851 TATTGAATTA TGAGGATTCT TTATATATTT TGGATACAAG CCTTTTGCAA  
331901 ATATGCATAT TGTGAATATT TTATCCCAAG CTGTGACCTG TCTTTTCGTT  
331951 TTCTTAAAGG TACCTTTTGA AGAGAAATTT TGTTTTGATT TTTGTAAAGA  
332001 CCAGTTTGTC CATGTTTTTC TTTTATACTT CTAGAAGTTT TATAGTTTTA  
332051 GCTCATAAAT TTCAAATTTA TTTTTCAGTA TGGTGTGAGG TAAGGGTCAA  
332101 TGTTCATTTT TTTTCATATG ATTTCTAGTA TTCACAGTAC CATTTCTTAA  
332151 GATAATTTCC TTTTGTAGTG CCTTAAATTC AGTATGGACT TCCTTTTCTT  
332201 ATTTTATTTA TCCGTATCTT TATCCTCTAG ATACTCTCAC ACTATCTTGT  
332251 TTCTTTAGCA TTATAAGTTT TGAAGTCAAG TAGTGTAAT TTTTCCAATT  
332301 TGTTCTTTTT AGAAGTTGCT AAAAGTTGCC ACATTGCCTC TGTAGATACA  
332351 CACAGAGAGA GATTTAGACA CATACCTCTT TTTAACCCTT TTGAGATAAT  
332401 TCACATACCA TAAAATTCAC TATTTGAAAT ATTTAATTCA TTGATTTTTA  
332451 GTATATTAC ACATATGTAT AACCATCACC ATAGTCAATT GTACACATCT

FIGURE 3QQQQ

332501 TATTCATGCT TTCTCCTATT ACCAAGAGCA ATGTCTGGTA TGTAATACAT  
332551 GCTCACCAAA TTTTCTGAA TAAGTGAATC CATTAGTTGT TAAATAATGT  
332601 AGGCATTAGC CTCTAGTAAA ATATTAAGAA GGCTCATTTG ACTGCATTCA  
332651 GCTCTAGAAC TATTCCTTTA TTAGAACTCT GCTATTTTGA GGGATCTCTG  
332701 AAACAGCTAA CAGCTTAACT CAGATATAGA TACAGATATA TATATATGGC  
332751 TACAGATTTT TTTTTTTAAA TGGAGTCTTA TTCTGTCACC CAGACTGGAG  
332801 TGCAGTAGTG CTATCTTGGT TTAAGTCAAC CTCCGCTCC TGGGCTCAAG  
332851 TGATCCTCTC ACCTTAGCCT CCTGAGTGGC TGGGACTACA GGCATGCACC  
332901 ACCGTGCCCA GCTAATTTTT GTATTTTTTT GTAGAGATGT CGTTTTGTCA  
332951 TGTTGCCGAG GCTGGTCTCG AACTCCTGGA CTCAAGCAGT CTGCCCTCCT  
333001 TGCCCTTCCA AAGTGTCTGG ATTGGCCGGG CACCGTGGCT CACGCTGTA  
333051 ATCCCGACAC TCTGGGAGAC CAAGGCAGGC AGATCGAAGC CCTGAGGTCA  
333101 GGAGTTGAG ACAAGCCTGG CCAACATGGT GAAACCCCGT CTCTACTAAA  
333151 AATTAGCCAG GTGTGGTGGC ATGTGCTGT AGTCCAGCC ACTAGGGAGG  
333201 CTGAGGCAGG AGAATCTTGC AGTGAGCTGA GACTGCGCCA CTGCACTCCA  
333251 GCCTGGGTGG CAGAGTGAGA CTCTGTCTCA AAAAGAAAAA AAAAAAACA  
333301 CCAAGTGCTG GGATTATAGG CGTGAGCCAC CATACTGTCT CTTAAACCAT  
333351 ATTTTAGTAG TTATTTAAGG AAGTTACAAA AAAAATTCCT TTTGATATAA  
333401 TGAGTGCAAA TTATTTGCAC ATTTTGAAG AGAGAATAGT CATCTTTTAT  
333451 TCACCTGATA ATTGCTGAGA AGGGCAAACC TCCCATAGT ACTGCTTTTC  
333501 TTTTTTTTTT TTTTTTTTTT TTTTTGAGAC AGAGACCTCC TGCTCCACCC  
333551 ACCTCAGCAT CCCAAAGTGC TGGGATTACA GCGGTGAGCC ACCGCGCCCA  
333601 GCCTTCTATT TTCAAAAGTA CTCTTGACAT TGTTTGATATC GGTGACATAG  
333651 ATTAGGGAAT CTCTGGTACT TGTTTTATTT ACCAATTACG AATAATAGTG  
333701 GATTGTTCGT GAAATTCAG ACATCTTTCC CTAGGTATCT TTGAGATGGA  
333751 ATGTCAGTTC TGAGCCAGT TAATTCATGT TGCTCATTT TCTTTATAGG  
333801 CTTTGATGCG GCCTGGAAGA ATTGATAGAA TCATCTATGT GCCTTTACCG  
333851 GATGCAGCAA CAAGAAGGGA AATATTTAAG CTGCAGTTTC ACTCCATGCC  
333901 TGTCAGTAAT GAAGTTGACC TGGATGAAC CATCCTTCAA ACCGACGCAT  
333951 ACTCAGGAGC AGAGGTAAGA TAGTCCCTT CAAAATACCT TAGTGGGAGG  
334001 AAAGCGGTGG CTCAGGGTCA TTAAGCAAAA TAAATTGCTT GCCCTGAGGT  
334051 GTTTTAAATG ACCATACTAA GAAATCTTGA AACAGGAAGT GCAGTACATG  
334101 ACATAGTCAC TAAGTTAAAT TGCACTTTAC GTGGCTTCTA TTATATCACA  
334151 ATTGTTTTTT ACTTGTCTCT ATTATTTCTC AAAATGTAGT CTTGAGGGA  
334201 ATAGCATAAT ATAGTGAGAA GAACACTAGA CTAGAAGTAG ATTCTTCCAC  
334251 TGGGCTTCTT AATACAGCAG TTTCTAACCA ATCACACACT TCTCTAACTT  
334301 TGGCTTCTTT ACCCATCAAA TGGAAATGAT ACTACTACCT TCCCTCCTGT  
334351 TTCCTCATGG AGAGCATAGA AATAAAATTA GGATATCATG AGTATAAAGG  
334401 GCAAAGCAAA CAGATTGTAT CATTATCATC TTTTGTCTAT TTTGGCAAGT  
334451 TATCTCAGTC TAATTTTGTA TTAACATTTC TCTCAGTA AAAGGGACCA  
334501 TCTGCCCTTA CCTCTGAAGA TAAACTCTTG ACAAGAACAG CAAGACCTCT  
334551 GTGAAATAT GAAATGACT TTTATGTATG GCAGATTAAC ATTTTTCTC  
334601 TCCTTACCAA CTCTTACTT ATGCTATTTT TATTTACCAA ATAAAATTCC  
334651 ATGAAATAAT TCTGCAACTT TTCTAGCTGC ATTTCTTAAG GAAAGGACCA  
334701 ACTATGTACC TCGACACAGA AATAGCATCT GTCACACCAA TGATGTAGAC  
334751 TTTTAAATGGG AGATTAATAT TTTTTTAAGT ACAAGGTTAC AGATTATTTT  
334801 TATTCGTGAAT TACTCAGTAG GCTAGGACTC CACATTCTGT TTTGCTTGCT  
334851 ATTGTTTTCA TTGCTTTAT GTAAACACCG AAGAGATTAC CATATGACAG  
334901 ATCATTAGTG GACTCCGAG AGTCTATTTG GAACTGAAC TAGTGTATCA  
334951 TGCAGTCATA GCTAATAACA ACAACCAAAA TAAATCCAG ATCTATTCAT  
335001 TGTTTTGCC CAAGAACCAT AGATATAGAT ATAGACAGTC CCCAATTAT  
335051 GACAGTTTGA CTTAAGATTT TGGGGCTTTA CAATGGTGCA AAAGTGGTAC  
335101 ACACTCAGTA CACTCTCAA CTTACAATAC AGCTACATCT GGATAAATCC  
335151 ATCTTAAGTT GAAAATAACA AGTTGAAAAT ATCGTAAGTC AAAACATAT  
335201 ATGCATTTTT GACTTAGACA TATTCAACTG ATGATGGGT TACCAGGACA  
335251 TAGCCCATC ATAAGTTGAG GAGTATTTGT ATTTGATTTT CCTCCTTTAT  
335301 ATTTTTCAAG TCCACTGGAA TAAAAAGCCA TGTGGAAAGT AGCTTGAGAA  
335351 GCAGTTGAAG TGCGCTCACC TTAACTCCT CTGAAACAGT GATCTTTATG  
335401 ACCATCCATA AAGTTAAAAT GAACATACAG TTATGGTTAA CTGACTGCTC  
335451 CAACATTTCT AGAATTCAGT TTTTGATTTG AGACGAGGGC TGGCATCTTG  
335501 TATGATGATA TGGCAATTTG CAGGAAACAG CAAGAGGAAG ACGAAGAAAC  
335551 CATAAATCTC TCACTTGAGC CGAGTAAACT AGAAGAGCAG TTAGCAAGAT  
335601 ATAAATATGC CTTTCTCACT TTGAAGTAAT TCATGGTAGT AACATCGAAG  
335651 TGCAAAACAA AAATAAAACC CAGTGAGATT CTATCTGGCT AAAAGGAAAA  
335701 AAACCTCAT TGGTGCCAGC AATTATTGTA CTGGCTTGCT AATTCTTATG  
335751 TAGTGCACTT CTTATTTAAT CTAACATGTA AGCACATTTA TGATTAATTT  
335801 TTATATGAGA TCTTCTGAAA ATCGTCACAG GAAAAGTAGC AGAAAATTCT  
335851 ATCTTTCTCT AAATTATATT TTTGTGTTCC ATAATGCTTG GATTGGGGAG  
335901 GGCATCCCAT TGTGTCCTA TTTATAATTA GTATATTATT ACAACTTCAT  
335951 AGAAATTTTG CTAACAGCTA CATCTTAGTA GTTCTGTGGT TTCTAATTTA

FIGURE 3RRRR

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336001 GATGAGGCAG GTTTGTTCCC TGTGAGGGT TTTGTTTTG TTTGTTTTG  
336051 GTCTGAATAG GTAGGCAGTT CACACAGTTG TTTTAGGAAA ATTATTATTT  
336101 CTTTAAAAGT CTTAAAGTTA ATAAACAGGA GATTTAGGAG ACTTTAATTA  
336151 ATGCTTAAGA TAAAAGGTTT CATTTCTCTC TCTCTGTTTC TCTGCTTTCA  
336201 CACAGAACCT TCTACATGGT GTGTGTTTAA CAAGCACTTG ATAAACTGTG  
336251 GGGAAAAAAG ATTTTAAAT TAGATTTAGG AAAAATAGAC TTCAGTTCTC  
336301 ATTTGTTTACA AGAGGAGCCC TCTAACTCCC TGCTGTAGAC ACAGCCATTT  
336351 TCTCAGAGTT GGAGTGTCTC TTTGGCCACT TTGGGTATAA AAATGAAACT  
336401 ACTATCAATT TATTGTCTC ACAAGAGAAT AGTATATTAT ATTCAAGATT  
336451 ATATAAAAT AATTTTATTT AAGTGTATAC TATTAGCTAT ATGAACAAGA  
336501 ATTTGGGCAG GAAAGCCAGA GACGAGGAAT TTCCTGGCAC TCTAATTGTT  
336551 TTTTAGAAAC AAAATGTTGA AGTGTAGTGA GCATTTTTTA TTTTAGTGA  
336601 AAAAGTTGTA GAGGATGATT AAGATGGAAA TGATACTGGT ACTTTTTTTT  
336651 TTTTTTTTTT TTTTTTTGAG ACAGAGTTTC GCCCTGTAT CCCAGGCTGG  
336701 AGTGCAGTGG CACGATCTTG GCTCACTGCA ACCCTCCGCT CCGGGTTTCA  
336751 AGCAATTCTC CTGCCCTCAGC CTCCAAGTC GCTGGGATTA CAGGCACCCA  
336801 CCACCACGCC CAGCTAATTT TTGTATTTTT ATTAGAGACA GGGTTTCACC  
336851 ACATTGGCCA GGCTGCTCTT GAACTCCTGA CCTCAGGTGA TCCGCCACCC  
336901 TTGGCCTCCC AAAGTGCTGG GATTACAGGC ATGAGCCTCT GTGCCACCA  
336951 CTGGTACTTT TAATGGCAGG GATGAGAAGA GGTACTTTTA AAAAATTATT  
337001 TCTTTTTCAC TTGGTTATTT ATTTTGCCCA ATCAGCATTG TTCTATGAAA  
337051 GCTTAGACCA GCTCAGTGTT TGAAATAGCT CCTTCTGGTC AAAGTTACTC  
337101 CATTTTTCTT TCGTGGAGAG GGTATACAGA GAATTGAAAC ACTTTTGTAA  
337151 GCCTCAGGAG GCTCTCAAGA GGAAGTCTGT CACCAGCTGG AAGGGGAATA  
337201 CAGCCGTTAG GGAGCAGCCT CTGAGGGGAG ACTGAAGCAG GTTGCGTCTT  
337251 TTAGCCATCT CTGCCACCTG CCACTCATTG TCCCTGTGGC TATGGCCCTC  
337301 ATGTGCTCGG CTTCTTGACT GTAGCTGTCA GTTAATGAAA AAACATGTGC  
337351 CATTTAAAAG CAGAAGGGAA TTTCTCTCAG GAGGAAGTAA GTCTTTTGG  
337401 TTATCACTAT TGTTTTCTTT TGCTCTGATT TTTGTTTTT AAGTTATTTG  
337451 TAGCAATTCC ACCTCATTTA TTCATTTATC TTTTATCAAA TTATCCTGGT  
337501 TACTTTTGA AGAGTTTTAT CTGTAACAGA AAATCAACTG TCACAAATAT  
337551 ATTTACAAAA AAAAGCAATA ACTGGGCTCA TTACCCATA TGCCCTATGC  
337601 TTGGGAACAC AGGTGATGAG TAAGATGCAT AATTTCTTCT GTGTATCAGA  
337651 ATTTGCTGAC ATAGGCCAAA GACTGATATC TGTAAAATTG GGGTTGAATT  
337701 TTTATTTGAA TTTGGATATT ATCCTCCTTT CAGTGAATCC CTTGGGATCA  
337751 CCAATTTGTG AGGGAGTCAG GCCCTTCTTG GCCAGTTTGT AAATCTCCTC  
337801 CCTTACATCT TCAGAGGCCA GCTTCAGCCA AGTGGGGACA CTGCACTGAC  
337851 AGGGAGGAGC CGATTGGGAC AGGCCCTTCC TGGGAGCAGG CATGCAACTC  
337901 ATGATGTGSC AGTCAGGAGC AAAAAAACA CCTTCTTTTC TTTAAAATGT  
337951 AAAAAATTTG TTAATAAGT GGTTTTTTTA TTGCAATCTT ATGAATGTAG  
338001 CTCTAGAAGA TCTTTTTAAA GCAATTCATT AGAGTTAAAT ACATTTTACA  
338051 CTGAGTTTTT AAAAAGCTTT AACTTCATGT AAACCTAGTC TGTITGTTTT  
338101 ATTTTAAAT GATCTGTCAT GCCCTGAATT CTGTTTTGTA GTCTATGCCT  
338151 TCCTGGGTCT AATAATAGCA CAAGATCTTC ATGCCAGCTT GACATTTAAA  
338201 AAATCACCTT CTAGTTTGGC TCATTAATTC AAGAAGGGTC CTATTTACTA  
338251 TGCTTGAGCT ATTATAGCTA ATAAAAGGAG AGCCTTAAAT TACTTTTCTG  
338301 TCTCACTGAT TAACGTTTTT TCTGACATCT CTTTTCTCC CACACAGTGA  
338351 AAACAGAAAG AGCAATTATA GCCACTTAAA ATGTCTGTAC TCTTCTTATG  
338401 TGAAATCTCT TGTGATAGTA TTCCCAAAC TAAAATATCA GTCATTGTAT  
338451 TAGAATCTGG CATAGATTGT TCATCTGACC AGTCAAACAA CACATGTGAG  
338501 ATAGGAATAA GGATTCTAAG GAAGGACCAT TTGACCTGGT CTTAAGCGCT  
338551 CTACTTATTA TTGTTAGAAA GCAGCTAGCA GCAGTGTACT TGTCTCCAAA  
338601 GTGAAGCAGA GCAGCACAGT ACTTAGCACT CTCCTACAGA CCAGGGGTCC  
338651 CCAACCTCCT GGCCACGGAC CAGCACCAGT ACTGCATAGC ATGAGTGAGT  
338701 GGCAGACAAG TGAGCATTAC TGCTGAGTT CTGCCTCCTG TTAGATCAGC  
338751 AGTGGCATTG GACTCTCATA GGAGCACGAA CCCTATTGTG AACTATGCGT  
338801 GCGAGGGATC TAGGTTGTGT GCTCCCTATG AGAATCTAAC GCCTGAGAAC  
338851 AGTTTCATTG CGAAACCATC CCCCCACCCC ATTTGTGGAA AAATTGTCTT  
338901 CCACAAAACC AGTCCCTGGT CCCAAAAATG TTGGGGACTG CTGCTATGGA  
338951 CTGCTGCAA CCTACTTTTC CTGCCTAATC AGAAACTGCC CTATGAAAAC  
339001 ATGCTGCTAT CACCAAGTAG TCTACTATAT TTGAGATCTT CTTTGTATC  
339051 TCTCTATTCT TCCTTGTGTC TTTACTATAA AATTCTGTAT CTGTGCCCA  
339101 GAATTTCAAA ATACTCAGTG CTCTGTATCT GCAAGTTCCA TCTGCAAAAT  
339151 CAACCAACTG GGAATAGAAA ATATCAGAAA AAAGCAACAA AAAATAACAA  
339201 TACAACAACA AAAAGTACAA ATTTGAAAAT ATAGCATGAC AACTATATAG  
339251 CATTTACATT ATGTCAGTTG TCATAAGTAA TCTAGAGATG ATGTATACAA  
339301 GAGGATGTGC ACAGGTTATA TGCAAAACT ATGCCATTTT ATATAAGGGA  
339351 CTTGAGCATC CTTGGATTTT GGTATCTAAG GGGCTCCTGG AACCAATTGC  
339401 CCTTGATAC CAAGGGACAA CTATATTCTT TCCTTACACG ACCTACTGAA  
339451 ATAACTACTT TGTCAATAAA CCATAATGAC CACCCACCA ATAAATAGCC

FIGURE 3SSSS

10/506549

339501 TATTCTTTTG TACTCTTTTA CACTTATTTT TGTTCCTT GTTAGCTGT  
339551 TACCATATTT TGTAGTTATT TTATTTT TTTT AGAGACAGGG TCTCATTCTA  
339601 TTGCCAGGC TGGAGTGCAG TGTCTGATC ATACCTTACT GCAACTTTGA  
339651 ACTCCTGGGC TCAAGTGGTC CTCTGCCCCA AGCCTCCTGA GTAGCTCAGA  
339701 ATAGAGGTGC ATGCCACTGT GCCCAGCTAA TTTTTTAAA AAAATTTGTA  
339751 GACATTGTCA TGTTCGCCAG CCTGGTCTTA AACTCCTGGC CTCAAGCAAT  
339801 CCTCTATCT CAGCCTCCTA AAGTGTGGG ATTACAGGCC TGAGCCACTG  
339851 TGTCTGGCCT CTGTAGTTAT TTTAATATGA GCAGCTGCCT CATCTCCCA  
339901 AACACAGATT CTCTAGGGCA GAGATCAGTT CTGTACTTC TTAAGTCTG  
339951 GCAAAACAGC TGTCTCACAC AACTCGGTG GGCATTAATA TTAGATGGGT  
340001 GGTACATTTA TGTATTGATT CTAAGTCATT TTACCAACCA AAAATGTCAG  
340051 TTTTAACATT TGCTGAAGTG GCACTTTCTA GTTTAATCA TATTTTCATA  
340101 TACATTATCT ATTTGAGTAC CCTAACTCTA TGAGAGCAGT GCTGTAGCGA  
340151 AAGAACTAAA GTCAAGCAAA AGAAATTGGC TTGTCTGAGA TCCACAGCA  
340201 AATAAGTGAC AAACCTGGGA CCAGAAACCA GGTCTCTCAG TTCCACTTGA  
340251 AGGACTCCAC GATCTCCTAA TGCCTCTGTG TCAACACAAC GTTCTTTGAA  
340301 ACTTTCATAG TTCCCTTTGA CGTCTCTGAA TATTTGATAA AAGTTTGTCA  
340351 ATTCTGTGTA ATAGTGACTT AGCAAACCTAA ACAGCAGTTA TGAAACATCT  
340401 GTACCATTTT TATACCTTTT TCTCTTACAG TAATTGTCTT TACCTACCTT  
340451 GTTTTCATCT TATCCAAAAA AGTATAAGCT ACCTAAAGTT AGGAACCTTG  
340501 TTTTATCAA TTAATTTCTT TTATTTCTA GGTATTGTGA ATAATGTTTG  
340551 CAATTTAGAA TGAAAAGTAT AAACAACGAA GTTTTATATA ATGTATTTAT  
340601 GTGGCATGAT CTACTGATGT GCAGAATGCT ATAGGAGAAA GGAGGAGGAG  
340651 TAACCTCACAC TACCTGGGAT TAAATGAGAT AGATGATACC CAGAAGAATT  
340701 TTTTCTGAG TTTTGTGGG CAGATGGAAA GGCAGAGATG AATGAAAGAA  
340751 CATGGTGTGG TCTAAAATCA GTTAAAGTTT GAATATGATT GGCAGAAAGA  
340801 GTCTTCATGT AGAAGTAGTA GGGGATGAAG CAGAAAAAGT AGGTGAGACT  
340851 TAAATATGAA GGAACCTGAA TATCATCCGA ACTTGCTTTT CTCTTTTCAG  
340901 CAATGGAAAA CCATTGAAAA ATGTGATCAC TGTGTGGTCA AGATTGTAT  
340951 TATTGAAAGA TTTGTGGCAT TTGTGTCCAA AGCCACCACT AGCTAGCCTT  
341001 CCAAGCACCA TTACAGGAAT TAGAAAAAGG TGTTCCTTCA CCCCCTTGG  
341051 TGACAGCTTT TTGTACAGC AAAAAGCTTG TCAGAGCATG AGCAACATTT  
341101 CAGCCCCAT TTGCCCCCT TGGCTGGGCA CCTTTTGTG GATACAAGCT  
341151 TTACATCTGT ACAAGGTGTC TTATTTTGT CTCTCCACC TTTATCTCCC  
341201 TCACAATGCC TAGCATAGCA CCTATATAG AGTTATTGTC ATTAATAAAA  
341251 CAAATGGAGA CTTTACATCT CAAATATATA AACTACTTTC TGTAACCTTA  
341301 ACATTTACCT CATGAGCCCT TGGATAAAAA TAAATTGGGA CTATTAAAGA  
341351 TGTCTTTTGT AGAAGATACA GAAATGGCCA ACAAAACATGA AAAAATAGCA  
341401 TCACTAATGA TCAGGAAAAAT GCAAATCAAA ACCACAGTGC AATACCACTT  
341451 TATTCTATA AGAATAGCCA TAATCAAAAA ATCAAAAAAT AATAGATGTT  
341501 GGCCTGGATG TGCTAAAAAG GGGACATCGT TACTACTGCTG GTGGGAATGT  
341551 AAACAGTAC AATCACTATG GAAAACAGTG TAGAGATTCC TTAAAGAACT  
341601 AAAAGTAGAA CTACCATTTG ATCCAGCAAT CCCACTGCTA GTATCTACCC  
341651 AGAGGAAATA AGTCATTATA TGAAAAAGAT ACTTACACAT GCATGTTTAT  
341701 AGCAGCACAA TTCACAATTA CAAAAATATG GAACCAAGCC AAATGCCCAT  
341751 CAATCAACAA GTGGATACAG AAATTGTGGC ATATATATAC ACCATGGAAT  
341801 ACTACTTAGC CATAAAAAAG AACGAAATAA TGGCATTGCG AGCAACCTGG  
341851 ATGGAATTGG CAACCATTTAT TCTAAGTGAA GTAACTCAGA AACAGAAACC  
341901 CAAACATCTT ATGTTCTTAC TCATAAGTGG GAGCAAAGCT ATGAGTATGC  
341951 AAAGGCATAA GAATGATACA GTGGACTCTG GGGACTTGGG GGAAAGGGTG  
342001 TGAGGGGAGT GAGGGATAAA AGACTACACA TTGGGTACAG TGTACACTGC  
342051 TTGGGTGATG AGTGCACCAA AATCTCAGAA ATCAACCACTA AAGAACCTTAT  
342101 CTATGTAACC AAACACCATG TGTTCGCCAA AAACCTATTG AAATAAAAAA  
342151 TGAAAATAAT AATAAAAGGT CTTTTGTGCA AACTTTAACC TGCCATGAGG  
342201 TACAGCACTT GTTGTAATTT GCTAGAATAT TAAAGTAAG GTGGATTATA  
342251 TCCTCTGAGC CATATTATGT AACTTTGAAT ATAAACTCTA AGGACAAAAG  
342301 CACAACCTCT GCACCTGTTT AGTGGCTAAA ATATGGCTCT CTGTTGTAAA  
342351 TGAATTATGA AGGGATCTTT CAGAGCAAAA ATCAGCATGT GCTAAAAGTA  
342401 GATATTTAGG ACTGTAACCT TTGAGCTAGT CCTGTACCAC TCCCTTTTTC  
342451 CCTTCTTCAG CATTTTATGA TCTACATGCT AAGTGAAGAA ATTTGGTAAA  
342501 AGCCAAAGCC CATCATGGCC ACCTAGAACA ATATGAGTTT AGCCAAATCA  
342551 TTTATCATTT GTAGAACTCA CTTTCATCTT GTAATAAGGG GATAGGAAGA  
342601 TGGTCTTTT ATAATCCTTT CAAGTGTTAA AAATCTGTGT GGTATATAC  
342651 CTGTCATAAA TTAAATTAAT TGTATAAGGA ATCCCTTAGG GATTGGACCT  
342701 CCAGGGATAT GTAGTATGGT TATGCTTCTC TTACAGTCTG TCCAGAAAGC  
342751 TGGGATCTTG GGATCTTAGT CAATGCTCT AAATATTTTC TTCTGTGGCC  
342801 AAAAGATATT AATTATGGCA CCAGAAGAAT GGGGACCTTA AATGACTCTG  
342851 ACAGTGACCA GAACTTGGAT TTTAATAAAA TTCTCCTTAG CAAACTTTAA  
342901 CAGTTTTCCTA CTAAGTAGAA AAGAAAATTT TACATGCTCA GAGAGTTGAA  
342951 GGCCTAGTGA TTTTTFACCT CTGAGATCTT TGGTTGTAT GCTTTTCAAC

FIGURE 3TTTT



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343001 TTCTTAAGA ACAGCTAATC AAGTTCACTA TCTATGATTT TGGGGATACT
343051 TGGATAAAAA GCGTTATAGA ATGGAAATAT ACAGCAGCCG ACTTTTTTCT
343101 TAAACTCTTT GTTGGGAAAA TAAATGAAGG TTGCAAAATT ATAATATTGT
343151 TCATTTTAAC TTAACAATTT TTAACACTTC AATGTATGGA GATACAATGT
343201 ACTTACAGTG TATGGAGATT CTCTGTATTT CCAAACTTCA CCTTCTGCTT
343251 AAATTGGCAA CAAAAGTACA TTCAGCTTAC CTGAAGGCTA TTTTAGATAG
343301 GATGTTTACA CCAAAGCTAA TCATACTCCA GAACACCTTG TGCTGCCATA
343351 CCTGTATTGC TAACTCTATG CCAGGTATTT AAAAGTGCTG TGAGTTTACA
343401 AGAAGTATTA GTCAGAAAGG AAATGGATAT GAATGAGAGG CTGGTTAGCA
343451 ACAAACCTTA TAGAACTTTT TACACCCAAA CATGGAAGCC TTTTATAGG
343501 GAAGAAGTAT ATCCAGTGAA CAAGTTAGTC AGGACCTACC AGATAATCTA
343551 GTCCCCAAGG CTGATATCCA GAGTAAATCT GTATCTGTGG AGAATTACTC
343601 AAGCCAATGA TAATGCCGAT TTGAGCATTT TAACATTCCA CCTTATTCTT
343651 CTTCTTCCAA ATTCTCAGTC TCTCTATTTT CTCATTTCTT TTCTCCAATA
343701 TTTTATATAA ACCATTTAAT CTGTGCTTCC TCATCTTCAG AAGAGTGATA
343751 AAATGGAGGT GGGGGTTAGG TTCTGTAAAC CTGAGAGGAG CTTATGATGT
343801 TAAAAAAGAG ATGTGCAAAG CATGCTGTTA ACTCTGTAGC ATAGATTCTG
343851 ATAGTGACAG TTATTTTGTG TTGGTTATTT GAAGTGATGG AAGGCTGATT
343901 TCTAATAACA ACCTAATCTG TATATGAAAA GATACACATG TAAAAGCTGT
343951 TTCTCCTTTT AGGAACCTCT TTTACTATAT GAAATTGAAT TATGGTTAAG
344001 TACCCTGGGT TATGGAATGA GAAAGCTGTG AACCCAAATG CCAAGTCTTC
344051 CATTTCTTAG CTATGTGACC TTTTATTCCA TATGTAAATA AGGATAAGAG
344101 AGGTCTTTAA CTTCACAGTT GTCCAGATTA GATGACATAA TTTATATAAG
344151 GTGCTTATCC TAGTAAGCAT ATAACAAGTG CTCAGTAAAT AAATTTTGTG
344201 ATAATCAGCA AATTTAATTT GATATCTAGT TTAAAAAATC TACAATTTGC
344251 CTAATTTTTT CACATTGTGT TGCCATAGAT TTTATGAATA CTCATAATAA
344301 ATGTTTCATG TATATGTCTT GTTTTATAGT TTAATGGTGT GTTCTTTAAA
344351 CTATATTTCA TAGTTTACAT GCAGCATTTA TTTTCTCTGA TTTATATTTA
344401 TAAACATCTG TAATCCTATT TTTATTTTTT CCTTGTAAA GATGTATACT
344451 ATTTTTTACT TTCAAAATGT GTAAAGCTAA TGTTTTACAC TTTCAAATGT
344501 GTAAAGCTAA TGTTTTTTTA TAAACTCCCT GTGTAATATC CCTATTTCGG
344551 CATATTTCTT AGTTAATTGC TACTTTCTCA CCTATAGCTT ATTCCTAACT
344601 TTTTTTACAT GTCTTGTTAA TTA AAAAGAA AAAAATAGTA ACCCAACTTT
344651 AGAAAGTTGA GGGTTTCTGT GTCCACTAGA ATAATTGTTT AGGAAATAAG
344701 CATACTCAT TATTTTGCTC TTTCTTTGAA GTTAGGATTG GACCCCAAGT
344751 TTTAGGTAAT AAGGCTGAGA AGTCTAATGC TGAGGACAGT AGCACCACAT
344801 ATCTGTTATT CAGTGTATGA AAGACACAAT TGACATGTTC TCGTTCTTCA
344851 TCCCCAAATG ACCATAATTC TGAGAAGAGT TCTGAAAGAA GTCATTCTAT
344901 TAGAATGTTA TTAACACTTA TAAAATGGTT GTTCAGAGCT GCAATGCAAT
344951 GGTACCTTG TTCTTAAGGA AACCTCCAC TAGTTTTTGG AAACCTGAAG
345001 ACAGAATTTA ACCATGCCTT AGACTGACTA GAAAGAAAAG TAGAAAAGAT
345051 TTAGATTTCAT AGGGTTTTCT CTTTTATTTT TATTTGTGTT TCAAATTTCC
345101 AAAGATTATT TCTGATGTTT TTTAATAATA GCTCACTCCC TATTTACTAT
345151 TAAATCTGGA AAAATGGGTT TTGCTTTTAT ATTTATAGCA AAGTTTCCCT
345201 GTTTAGGAGC AAAAGAAGTT TAGGTATAGT AAACATGCTA CTTTACCATT
345251 GTGGAAGTTC CACATCATAA ATTAGATATT TTCCCTTTTC CTTCAAAATG
345301 AAGTCACACT ACTTTTGGCA CTGAGACAGG ACAAATCTTC AGTGACAGCA
345351 AAATTAGCCT TTTGGCATAT TTTTATTTC TTTGAAAGAA TCCTTAAGGA
345401 GCGGTTTTAT GATTGAAAGC AAGAATTGTA TTTACTTTGC CTAGGGTAAA
345451 TTTCTTGCTT GAATATGTAA AAGAACGTAA GTCAAACACT GTTAGATAAA
345501 AACAAATTAG TATCAAAAGA TTTTATTATA ATAACCTGTC TATATTTTAT
345551 GACATAAAAT AGTATATAAC TAAGTTCTGT ATTATTTTGA ACTTTTATTT
345601 CTGCTACTAC AGTATGTATA CATCTTGAGG AACTCCAAGG GGCCTAAACA
345651 TAAGTTTACA CAGGTATTTG AAGAATCAGT TGACTCACTA TCTGAAGTGA
345701 GTATGTCTGT AAAGCTATGT TTAAATATAT CCTTATATTT AAACGTATCA
345751 TGGCTTATAA GCTAATCACC CATGAAGAGT GTATGTTGTC TTTCTTAATG
345801 CCAGTATGTT AGACAATCAA TATATAATTT ATGTTTATAT TAATAGACAC
345851 ACACAGTTTC CAATTGGTAT TTGATGCTT CTTTCTCTAA TATGAATTGA
345901 AAATAAGGA CCACTAATAT TTGAAAAAAG CTAAAAATAG ACAGTCTAAA
345951 ACAAGCACAG GGAGGATAGA CATAATTAGG GAGCAGATGA AAAGAGAGAC
346001 AAGAATAATA TGGCCACAAA ACAAGCACCA GAAGCTCTAA AATAGAAGGC
346051 TCAATTGTTT CTTAATTGAA AATGTAAAAA ATTCAGGTAG AAATAAAAAA
346101 TAAATGGAAG AATTGGATGA TCAAGTTGCA AGTCTCCAG AAAGTCAAAC
346151 AAAAAGACAA AGAGATGAGA ATTGTAGACA TGGTAACATC TGACTAATAG
346201 AGGTCTCAGA AGGAACAAAG AAATCAGAAG AGAGAAAACC ATCAAGACTT
346251 CTTTCCAAAG TTTGAACATT AAATTTCTAG ATTGAAAGCC TCTACCAAGT
346301 GTCTGGCTC AAACCATCAC ATTCAAAGGA CTAAAAATTT GGAGTGCCAC
346351 AAATTTATCA ACAGCAGAAG CTGTACGACA GGAGAGCTAT TCTTGAAATT
346401 TCTGAGGGGA AATTATTTCC AACCTAGAGT TCTATATCTA GCCAAACCAT
346451 GAAATCATAT GTGAAGATGG AATAAATTCA TTTTAGACAT GCAAGACCTA

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FIGURE 3UUUU

10/506549

346501 AAACATGTTT ATCTTCATGC ATGTCTTTTT AGGAAGTTAC TAGTAAATGT  
346551 GTTCCACCAA AAAAACCAAGG AAAAAACATG GGATCCAGGA AGCAGGTGCT  
346601 TCAGCACATG AGAATAGTGA AGAGAATTCC CAGAGCAATA AAGAGAAATC  
346651 CTGGAAGAGA TATTTTTAAG CTTTTCTATA AATCTGGCAA GGAAATTCAT  
346701 TCTTATCAAG TTGTCACTAT TTGACTCTAT TTTTCAATTG AGAATAAATA  
346751 ATAAGAAAGA CTAGTAGGTG AAAATTGAAT CAGCCCACT GGAATTATA  
346801 AAAGCAAAGT ATTGTCTGAA GAAACCATCA TATATTCTTT TCACCTCTTT  
346851 ATTCCAATCC AGAACTGTTT CTCCATGAAA GCTTTATTTT AGAATTCAGT  
346901 GTTACTGTTT TCTATAATTT TTAAACTTTC AAATGTGTAG TTCTGAAAT  
346951 ACTTTAATAG CAGAATCTTT CCCCTCCATC AAATAAAGCC GTATGTGGGA  
347001 AGCCTATTAT ATTGGATCTA CTTTGGTGCG GTCCCTGTCC TGCATGCCCTC  
347051 TTCTCTCTGC CCGGGCATGC TGCATCCTGT GAGGCACCTT GGAGATTCCA  
347101 CAGAGCAGTT TAAAAACTGT TACTGTAGCA AAAACACTGC TGAACACATG  
347151 GCTTCATTCT TATTTCTCAG AAACATAACA TGAGTACCCA TTAGTTTCAT  
347201 GAACTCACAG AAACAAAACA TTCTTGTGAC ATGGCTTGCA TAGTGGGTG  
347251 TATACCTGTG TATCTGTGAA ATGAACACTA AAAGTCCATC TTGACAAGTT  
347301 TGCACCTATC TGAATATATT AGTTTCTTTT TAAATGAAAA GTCATTGCCT  
347351 TGGTTTCAAA TAAAAATTGG AACCTCTAGT TTTTACATT C TGACATTTT  
347401 AAAGTTTGAA ATTAGTAACCT CATGTTTCTT TTCCCTTGTA AGTATGAGCT  
347451 GAGACAAACA ATAGCACCA AAATAGCACT GTACTTTGGG TGGGGGAACC  
347501 TGCATTTCAA CTGCTCCTTG TAATACATCC TTGGTCCCTT TTAATGCAGT  
347551 CTTTCTTTT TCCGATGTCA CCTTTGTAAA AGAAGCTGTT CAAAGATGTA  
347601 TAGTTTGTGT TGTTTTGTGT AGATGGAGTC TCGCTCTGTC GCCAAGCTGG  
347651 AGTGCAGTGG CACCATCTCG GCTCACTGCA ACCTCTGCCT CCCGGTTCA  
347701 AGCGATTCTT TCGCTCAGC CTCCGGAGTG GCTGGGACTA CATATGCCCG  
347751 CCACCACGCC CGGCTAATTA TTTGTATTTT AGTAGAGATG TGGTTTCACC  
347801 ATGTTGGCCA GGGTGGTCTC GATCTGCTGA TCTCGTGATC TGCCCCCTC  
347851 GGCCTCCCAA AGTTCTGAGA TTACAGCGGT GAGCCACCAC ACCCAGCCAG  
347901 ATTTATAGTT TTAATAAAT TTCCAGATAT AATCTTTTCT GGTAAATAAA  
347951 ACTAAGAGAT AGGGCTAAAG GACAAAAACA GACTAACAAT ACTACAGGAA  
348001 TTTGACTTTT TATGTAGTTG GTCATTATGG GATGTCTGTC ACATCAGAAT  
348051 TGAATCTTCC TGTGCACCAT GAAAAATGTAA AAGATAAAAT AGTAGAGCAT  
348101 GACAATAACT ATTTAGTCTG AAAAAATGATT TATCATTTGGT GGATATTTAA  
348151 AAAATGCCAA CTTGTGGCC TTTACTACAT GTATACCTTC TGTGGGGAAG  
348201 GGTACTCCCT AACTGAACAT TTTGTGAATT GATTAATGTT TAATATTGAT  
348251 TTGCAAGGCT TAGAAATGTA ATGAAGAAAT AGCTATAAAC CTTGTGTGCT  
348301 TTGTGCATCA AGGAATTTAG GTGCATGTTG CTTTCCCAT TACTTATTCT  
348351 TTTTAGGTTT TTCAGCGAAA TAATGCAAAA AACATAGCTC ATGGAATTAA  
348401 AGAGGAATAC TTAAGCAGGA AAAAAAATAA AGATTTTAAA AAGAAAGAGG  
348451 AATATAACAT CTTAAAAACC TCACCTTTTA TATCCTTACT TATAATTTTA  
348501 AGAATTGAAA CCTTGAGCAA GTGCCATCT TGGCAGGCAA ATTATTTGAC  
348551 ATAAAGTTTG ATCAAAGTAC AATTAGAAGA AAACCTCAGAA TCATAGCTGG  
348601 AAATGTTATT ATCTTCTTAG GTTCAACCTA AAAAGCCAGT GTACATACAG  
348651 GTTAGCATTT CAAACTCAAA GGATTTGTTT TCATCTTAAA GACGATGAAA  
348701 GGCCAGCTAC GTTTAGAAAT CAACAGCAAT CCATCATTTT TATCCCTCAG  
348751 TCATTCTCTA AGGGTATTTT TTGTGACACC TATGAAGAAG CAAAGCCATG  
348801 AAGGTATATC ATATATGCCA AATTTTCACT ACTGATGATG CCATTGTAGA  
348851 CAACTGCAGA ACAATGCTGG AGACTGAATA TAGCAAGAAC AATGCTAGAG  
348901 AGTGAATATA GCACTCCAGA AAAGCCTCTC ACTTAGGTGC CAAGTTCAAG  
348951 GCCAAAGAAT TACTTAGATA TTCTCAGGGA AAACCTTGGTT ATGTACAATA  
349001 TCATGAACAT ATAACTTCC CCCTTCATGC TCATTTGCCG TTTACCAAAG  
349051 ATAAATTGTG ATTTCCCAAC TTTGTAAAGAA AATAATAGTT GGAATGGCTT  
349101 GAGGATGTTT TTCTATGCTT TTTTGCCATC TTCTGTTCT TTTCACTTGT  
349151 GAAAACAGTA TCAATCTGTT GGGGTTTTTT CGTTTGTGTT TAATTAGATG  
349201 AGGATCATTT TATTATCAAG AATTGAAGGC TTCTGTGAAT TTCTGCCAGC  
349251 AGGGTGATAG CTGCCAGCAG TGCACAGCTT TGGTGTGAGG TAGTAGGGAT  
349301 TCCATGTGGA TATTGTCCCT AGACTAAGGG AAAGCCCCAT TGCTGTGGCT  
349351 TGTTGGGTGA TTCTGCCTGC CAGCCCCATT TTATGTAGCT TATCATGCAT  
349401 GGTTCATGGC TTGTAGGATG TTTATTCTCT TGGGTAAAGT TTTCTCTTTG  
349451 TTCTTCTTTG GTTTCTAGCT GACTTACTTG TGAGAGCAGA AAATTACCTG  
349501 GGTGCTTGAG ACCATTGTT CACGTGATGG AACTGTGATG CACATACATT  
349551 TGAATACATT TAAGTTTTTT ATTTGCCGTT TGTAACTTAC ACTGGAAGC  
349601 TACCCTGGTC CTACAGTTAA AATTTTCCCC TGAGTATTAT TCCTAATATG  
349651 TTTTTTTTTT CATGCCCAA AATGATGTTT ATAATTCACT TTTTCTCACT  
349701 GGCACATGAG TAAGATTTTAC TTACGCTGGT TTTGAAAGGT TTAGAATAAT  
349751 CAGTATTTCA CTTGCTAAGA CTTGAAACAT TAACAATAAT ACACGTGAAT  
349801 ACACAGTGAA ATTCTTTGAG GAAAAGACAC CAATGATCTT TCCTATTAAAC  
349851 TTATAAATGC TTCCACTGAT CAGCAAAGGT AGTTCAAAAT TTCATCACTC  
349901 AGTCCTGATG CTCAGATAAT ACCAGAGTAG TCAGGGTGAC ACTGTTGTGC  
349951 TTCTGACTGG TAGAAAAATGT TTTGCTTTCC ATTTTTCAAA GACAGTTGTT

FIGURE 3VWW

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350001 GACAGATAAT CCATTCTCTT TGTGTATGTA TGTATGTAAT GAAAATAGCC
350051 ACCGTGAGCT CAGTAAACCC CTCCTTACTA AATGTACACA AAAGTCCATT
350101 TTCAGGTGTT TGTATTGTGT GAAACTTGGT TATGTACAAT ATCATGAACA
350151 TATAAACTTC CCCCTTCATG CTCATTGCTT GTTTACCAAT ATGATTCCCC
350201 TTGAGACTCC AGCATTAGGT GCTATATGGC TGTACAAATT GGTTTGGGAT
350251 TGCTTTGCTT ACAGTCTACT CACCTCAGAA CCCCACTTAG CAGTTTCTAT
350301 GATTCTCAGG GAAAGTGCTT CAGCAGAAGT AGACCTTTAG GAATTAGAGA
350351 CAAGTTACAA CCAAAGGAGG GACATTCAAC TGCAGAAGCT TATAAAAGCA
350401 CATGAGATAC AGGCATCGTA GCCTACTCAG ATTGACATCT ACTTGACAGT
350451 TCTGGTCATC AGTGACTTCA TTGAGCACTG AGAGCAGTTT CATTGAAGGA
350501 GCAGTAAGGG CAAAAACTAG ATCGTAGAGA ACTGAAGTCA AAATAATAGT
350551 TGAGATTTAT TGTGGATATC TCCTTTCAAG AATTTTGAAT GAAAAAGAGA
350601 GGAGAGAGAT TAGATTGGTA ACTAGAGAGA TAGTGGTGGG GGCAGGGTAT
350651 ATTCATAGAA TGGAAGAGAC TTGAACATGT TTATAGGTTG AAGAGGGAGA
350701 GTCAGCAGAG AGAATAGAGT GAAAATATCC AAGAGAAAAA TGAGAAAGGG
350751 GATAACTAAT GAAGGAAGAT CACAGAGGAC TGTGGTCATG GACACAAAGA
350801 AAGGTTTTGC CTTGAGCTGA AGGAGACTTT ATTCTCTTAT ATTATTCAGA
350851 AAGAAGTAAG AATGATTGTA AATATAGACA ATTTCTTAGG TAGAGGGCTA
350901 GAAAGGTGAA AAGGGTGGTT AAACTCAGTC ATCGCTGATC CTCAACTTAA
350951 AAGTCTGTTT CACTAATCTT TATTTTGTAT TACTGAATGC ATATATAATG
351001 AGCTACGTTA ACATTGGGTT TTAGTGATCA TTATGCGTAG TATAATATAT
351051 AGAAAGTCTG ATCCCTCTTT TTAAATAATA TATAGAAATC CAAACTTTAT
351101 CAGTGTAAAC ATACTGAGTT TGAGGTGTCT ATAGATCATC TTAATGGAGA
351151 TGTCATACAG ATTAGTTTTT ATTTTAAAT TTCTCCCTAT TTCATTGAAA
351201 ATATGATTCA CTATATAAAA TTGTAATTAA TATAGATATA TTACATAAAG
351251 ACAAAGGAGA AGCTCTATAC ATATGGATGA TCACATACTA ATGGAAGATT
351301 TTTTAAATTG TAAATTAATA TTGTTTCCTA GACAAGTCAG TAGGATTGAG
351351 TATACAAGTT GAACATCCCT AATCTGAAAA TCCAAAATCC AAAATGCTCC
351401 AAAATCCAAA ACTTTTGTAG CACGGGCATG ATGCCTCAAG TGGAAAATTC
351451 CACACCTGAC TTCATGTGAT GGGCTGCAGT AAAACATTGT TTCATGCACA
351501 CGATTATTTA TTGTATAAAA TTCTTTTCAG GCTATCTGTA TAAGATGTAG
351551 ATGAAACACA AATGAAGTTC ATGTTTAGAC TTGGATCCCA TCCCAAGAT
351601 AACTTATTAT GTATATGCAG ATATTCCACA ATCCAAAATT CAAATACTTC
351651 TGGTTTCAAG CATTTTGGAA TAGGGTTACT TAACCTGTAT TGAGGTGACA
351701 GGTAATCTCT TAGTCTTCTG GCTTTATATG ATTACTGGTT AGCTAAGGAC
351751 CTGTCTATGT TAGAGGCCCT GTCCATGCCA CATTTTTCCT CAAGTTAAGC
351801 TTCTACTGTA GCTTTTCTTT ATTTTCTGAC CTGCTTGATA ATCTATTCTT
351851 ATATTGATTG TACAGTGAA TTAGTCTATA TAGTGTATTA GTTATAACTC
351901 AGTGTATTCT TAAAGGGTTT CCTCAATTAT TTTAATATTT GACCTGCAAT
351951 AATCTGAGAA CGATTTTCAT TTTCTATACA TAATGGCTTT GTAGTTCAGT
352001 GTTAAAGCTT TCGAATCTTC AGAGTGAATT GATTGATAAA AGAAAACTAA
352051 TAGTGCCTGG CCCCCAGTTT GCACTTAATA ATGTTTGATG AATGAAAGAC
352101 CGAATGCATA CAATTTCAAT TTTGTGAAAG TTTACCATCC TAAAACTCT
352151 GATTTTTTTT TTTTAAAGAA ATAGTACATG TTCTTTTGGG ACTGTCTGAA
352201 AACATTGACT CTTAACCATA ATAACAAATA ATTTTATGTA GTCCCAAGCT
352251 AGAGATAAAG AGACCTAGTT ACTTCATTTT ACCTTGGGTA TGAGTTTGA
352301 TATTTGATGA TAACAGATTT GGATCGTTGC TGGTTTGGGG AAGGTTGCGA
352351 TTAATTATAT AAAAAAGCAC ATAATTAAAA AAAAAAAAC CTATCATATC
352401 CTGTTACCCA ATTCTCTGGT ACAAGAGCTT TAGGCACTGA TTTAATCTTG
352451 AAATGATAAT TGGACTTCCC ACTAGATTAG CCCATATGTT TTGAGAGGCT
352501 GTCTGGGAAT GAGAGGATGT CATTCTATA TGAAGGAACA TGAGGCAAGA
352551 ATCCAGAATG AAGAACCATT AGTCTGTCTT ACCAGAGTTC TGACAACACT
352601 GTGATCTGAA AATGTTTTGG CCAAAGTCAG ATTTATTGAG GGCCATAATT
352651 TTCAATAAAA AGAATCCCAG AGGAAGTTAT TTGATGGTTG GAATAAAAAT
352701 ATGACTTATA CACTACATGA TTCAGCTGCT TTGGTGTGTG TTTTGTAGTT
352751 GTACCCATAT ATTCACTTC ACATCCAAGT GTGCTGGAAA AAGTTTGTGT
352801 TCTGATTGAA TTATGTTTAC CTTAATTTCC TCTGCAGTGC TTTTCCCTCA
352851 GGCAGACCCT TGAGTGATTG TCTTTTTTAC CTCCTCCAAT TTCCACCATT
352901 CTCATTTTAT GTGTTCAAGT TAAATGTGAA CAACAGCAAA CAGCTACACT
352951 CTGTA AAAA TACCATTCT TTCTTTGAGT CAATGCATTG ACTTTTCTGG
353001 TAAATGATTT TGGGGGCTG CAGAAACCAA ATGATGAGAC CCCTGTAGGT
353051 GGTGAAGAGG AGTTTGCAAG CAATGTTTGC ATAAAGTTCT CCTGGCCTCT
353101 TCTGCTCGTG TTTGGTTTGT TCTTTTAAAC ACTGTCTTAA CTACAAAAAA
353151 TTTTTTATG ACTTTGGTCT CTTTGGAGCA AGGAAAATGA CCTGGAGGGA
353201 CAGTCCATG GCAGTCCAGC TTATATTCTT ATGTAATTGA CTTAACTGAC
353251 ATATGCCCTG GTTTTCTTTT TTTTAAATTA ACTTTTATTT TAGGTTCAAG
353301 GAGTACATGT GCAGGTTTGT TACATAGGTA AACTGCATGT CATGGGGGTT
353351 TCATGTACAG ATCATTTTCAT CATGCAGGTA ATAATCACGG TATCTGATAG
353401 GTATTTTTTC TGATCCTCTC CTCTCTCAA CCCCCTAGCC TCAAGTAGGC
353451 CCCAGTGTCT GTTGTCCCCC TCTTTGTGTC CATGTGTTCT TGTGTTTAC

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FIGURE 3WWWW

353501 CTTCTTATAA GTGAGAACAT GTGGTATTTG GTTTTCTGCT GCTGCATTAG  
353551 TTTGCTTAGG ATAATGGCCT CCAGCTTCAT CCATGCTGCT GCAAAAGACA  
353601 TGATCTTGTT TTTTATGGCT GCATAGTATT CCATGGTATA TATGTACCAT  
353651 AATTTCTTTA CCCAATCTAC TATTAATGAG CATCTAGATT GACTCCATGT  
353701 CTTTGCTATT ATGAATAGTG CTACAGTGAA CATACATGTG TCTTTATAGT  
353751 AGAATGATTT ATATTCTTTT GAGTATCTAC CCAGTAATGG GACTGCTGGC  
353801 TTAAATGATA ATTTCTTTTT GAATTCCTTG AGGAATTTCC ATACTGCTTT  
353851 CTACAATGGC TAAGCTCATT TAAACTCCCA CCAGTAGTGT ATAATCATTC  
353901 CCTTTTCCCT GACACCTCAC CAGAATCTGT TATTTTTTTG CTTTTTAATA  
353951 ATAGCCACTC TGACTGGTGT GAAATGGTAT CTCGTTGTGG TTTTGACTTG  
354001 CATTTCCTFA GTGATTAGTG ATGTTGAGCA TTTTTCCATA TGCTTGTTGC  
354051 CACATGTATG TCTTCTTTTG AAAGTGCTCG TTCATATTCT TTGCCCACTT  
354101 TTTAATGGTG TTGAGGTTTT TTTGCTTGTA AATGTAAGTT CCTTATAGAT  
354151 TCTGGATATT ATATCTTTTG TGGGATGCAT AGCTGCAAT ATTTTCTCCC  
354201 ATTCTGTAGA TAATCTGTTT ACTCTGTGGA TAGTTTCTT TGATATGCAA  
354251 AAGCTCTTTA GTTTAATTAA GTCCCATTTG TCAATTTTTG TTTTCATTGC  
354301 AGTTGCCCTT GGCATCTTCA TCATGAGATC TTTGCCAGGC CCCATGTCCA  
354351 GAATGGTATC TCCTATGTTA TCTTCCAGGG ATTTTATAGG TTTAGGTTTT  
354401 ACATTTACAT CTTTAATCCA TCTTGAGTTG ATTTTGTAT ATGATGTAAC  
354451 GAAGGGGCT AGATTCAATC TTCTGTACAT GACTAGCCAA TTATCCAGC  
354501 ACCACTTACT GAATGGGGAG TCCTTGCTCT ATTGCTTGTT TTTGTTGACT  
354551 TTGTCAAAC TCAGATAGTT GTAGGCATAT GGTCTTATT CTGGGTTCTC  
354601 TATTCTGTTT ATTGGTCTAT GTTCTGTTT TTGTACCAGT ATCGTGTGT  
354651 TTTTGTTACT GTGGCCTTGT AGTGTAGTTT GAATTTGAGT AACATGATGC  
354701 CTCCAACCTT GTTCAGTTTG CTTAGGATTA TGTGTGGCTAT TTGGGCTCTT  
354751 TTTTGGTTTT GCATGAATTT TAAAATAGTT TTTTCTAATT CTGTGAAGAA  
354801 TGTCATTCTG AATTTGATAG GAATAGCACT GAATCTGTAA ATTACTTTGG  
354851 GCAGTATGGC CATTTTAACA ATATTGATTT CTTCCTATCT GTGAGCATGG  
354901 AATGTTTTCT ATTTTGTGT CATCTTTGAT TTCTTTTACG AGTGTCTATA  
354951 TTCTCCTTGT AGACATCTTT CACCTCCTTG GTTAGCCATA TTCTTAGGCA  
355001 TATTTTATTA TTTTGTGGC TATTGTGAGT GGGATTGCAT TCCAGATTTG  
355051 GCTGTACAGT TGGATGTTTT TGGTGTATAT CAATGCTACT GATTTTTGTA  
355101 CATTGATTTT GTATCCTGAA ACTTTTACTG AAGTTATCAG ATCCAGGAGC  
355151 TTTTGGGCTG AGACTATGGG GGTTTTCTAG ATATAGAATC ATGTTGTCTG  
355201 CAAACAGGGA TAGTTTGACT TTGTCTCTTC CTATTTGGAT ATCTTATTTT  
355251 TTCCCTCTGC CTGATTTCTC TGGCTAGGAC TTCCAGTACT ATGCTGAGTG  
355301 GGAGTAGTGA GAGAGGGCAT TCTGGTCTTG TGCTGTTTTT CAAGGAGAAT  
355351 GCTTCCATCT TTTGCCATT CAGTATGATG TTGGTTGTGG GTTTGTCTA  
355401 GATGGCTCTT ATTTTGTGA AGTTTGTTC TTCCATGCCT GGTTTATTGA  
355451 GGGTTTTTTA AATGAAGCAT TGTGAATTT TATCAAAAC GTTTTCTGAA  
355501 TCTATTGACA TAATCATGTT TTTGTTTTTA GCTCTGTTTA TAGGATTAAT  
355551 CACATTTATT GATTTGTATA TGCTGAACCA AACTTGCAAT CCAGGGATAA  
355601 AGCCTACTTG ATCATGGTGG ATTTGCTTTT TCTTGTGCTA CTGGATTCCG  
355651 TTTGCTAGTA TTTTGTGAG GATTTTGTGA TCGATGTCTA TCAAGTATAT  
355701 TGGCCTTAAG TTTTCTTTT TTGTGTGTT TCTGCCAGGT TTGGGTATCA  
355751 CAATGATGCT GGCTCATAG AACGAGTTGG AGAGGGATCC CTCCTCCCTA  
355801 ATTTTGTGA ATAGTTTCAG TAGGAATGGT ACCAGCTCTT CTTTATACAT  
355851 CTGGTAGAAT TCTGTCTGGT CTTGGGCTTT TCTTGGTTGG TAGGCTTTTT  
355901 TATTACTGCT TCAGTTTATG AACTTGTTAT TGGTCTGTTT AGGGATTCAA  
355951 TTTCTTAGGT TCAGTCTTGG GAGGTTGTAT TTGTCCAGGA ATTTATCAGT  
356001 TTATTCTAGA TCTTCTAGTT TGTATGCATA GAGGTCTTCA TAGTACTCTC  
356051 TGAGAGCTTT TTTTATGCT GTGGGATCGG TGGTAATGTC CCGTTTGTCA  
356101 TTTCTAATTG TGTATTATTG GATCTTCTTT CTTTTATTA GTCTAGCTAG  
356151 CAGTCTATCT GTCTTAATTT TTTCAAAGAA GCTACTCCTG GATTCAATTGA  
356201 CCTTTTGTAT GGTTTTTCAT ATCTCAGTTT CCTTCAGTTC AGCTCTCATT  
356251 TTGGTGATTT CTGTCTTCT GCAACCTTTG GGATTTGTTT GCTCTTGATA  
356301 CTCTATTTCT TCTGGTTGTG ATAGGAGGTT GTTAATTTGA GATCTTGCTA  
356351 ACTCTTTGAT GTGAGCTTTT AATGCTATGA ACTTCCCTCT CAACACTGCC  
356401 TTAGCGGTGT CCCAGAGATT CAGGTATGTT GTATCTTTGT TCTCATTAGT  
356451 TTCAAAGAAT TTCTTGATGT CTGCCCTAAT TTCATCATTT ACCCAAAGT  
356501 CACTTGGGAG CAGTTGTTT AATTTCCATC TAATTGTATG GTTTTAGCAA  
356551 TTTTCTTGAT ATTTGTTTCT ATTTTATTGT CTTTGTGCTT AATTTTCATT  
356601 TATGAAAATA TAAAAAATAT AAATATAATG CATGTGATAA ATGCATGAAG  
356651 TACAATACTG ATGCTTTTTT TTTGGTATGT ACATTCCAGA AATTAGTTAT  
356701 GTTTACACAT TAGGGTGAGT CATGTGCTGA GCCTTTAAGG GGAAATTTTA  
356751 AACCTTAATC TGTATATTTT TAACGTAAAT GGCACCATAT ATCTCTAGGA  
356801 CACAGTAATA GACCCAGAA TTTAGGACCA TGTCAAAGAA ATCTGAAATG  
356851 TTTTAATTTT TCTCTACTG TGAGTTTGCT TCATCTCTAC TTGAAAATG  
356901 AAGAGTTTCT TTTAGGCCAG GCGCGGTGGC TCATGCCTGT AATCCAGCA  
356951 CTTTGGGAGG CCAAGCGGGG TGGATCACCT TAGGTCAGGA ATTCGAGACC

FIGURE 3XXXX

357001 AGCCTGGCCA ACATGGGTGAA ACCCCATCTC TACTAAAAAT ACAAAAATGA  
357051 GCCGGGCGTG GTGGCAGGCA CCTGTAATCC CAGCTGAGGC TGGGGCAAGG  
357101 AAATCACTTG AACTCAGGAG GCAGAGGTTG CAGTGAGCCA GGATCATGCC  
357151 ACGGCACTCC AGCCTGGGTG ACAGAGCAAG ACTCCATCTC AAAAAACAAA  
357201 AAAAAAAGCT TTTATAGAAC TAATGTATAT AAAATATACA TACAAGTTGG  
357251 AAGTATAGCA AAGAGATAAA TAACTCAGTT TCTGAAATTA GGAAAAAGTA  
357301 AATTTGAATC CCATCTCTGC CATTTACTAA CTCTATGACT CTGGAAAGTT  
357351 TTCTAATAGG TATAGTAGTT ATAATAATAG TACTTTCTTC CTAGGGTCAT  
357401 TGTGAAGATT AAATTATATC ACCTATAGAA AGCACTTGTA CATATCATGA  
357451 ACCAAAGATT ATAACATAAT CAATTTTTC GTCACCTGAA GAAAAATGGA  
357501 AGTGACTGTC CAATGTAGAT GTCAGCACAT ACTGAAGGGT TCAAGAAATG  
357551 AGAGTTGTAA TTATCACTGC TGTATCAGT AGATCATCAA TAAGTAGAAC  
357601 TGATCAGTTA GCTCAAATTG AGCAATCAAT ACATGAGTTA CTAGAAAGCA  
357651 ATATTTTTTA AAGGTTTATT ACAATATAAA AGTGATACAA CTAAGGGATT  
357701 GGGAATAAAT GCGTATACAT TTACCTAAGA ACAAGTGTTC AACTCCAATT  
357751 TCTTTTAATT AAGTTAGTTC GCATTTATGA TAGAGCCATA CATATTGCAG  
357801 AGGACAATAC CATGTGCAAT CCTAAGTAAT ATTTTCTTAT GAGGTTTAGT  
357851 GTCAGGTTCT TCAGGTAGAA GAAGCACAAG CAGCTGCATT TAGTAGACCT  
357901 GGGTTCCAAT CCTAGCTCTA CCATTTATCA ACTGTATTAC ATTGAGTAAT  
357951 TTAGTGAACC TATCTGAGAC TCTGTAAAT GGCAATAGTA ATACTTCATT  
358001 ACTATGAAGT AATACTTTCA TAGGCATTAT GAAGATTGGA AATAATATAT  
358051 AGGGTACTTA GTAAATAATA GCTATTGGTG TTATTCTACC ACTACTTTTT  
358101 TTAAATTAAT AAACGTGTGA CTACCACCAT TTTAATTAAT AAAGTTCCGT  
358151 TCCTTTACAA ATAAACATTA GTTTTCTATC CCTGCTGTAA CAAATTGCCA  
358201 TACACATAGT AGCTTAAAC AACAAATTTA TTATCTTATA GTTCTGGAAG  
358251 CCAGAAATCT GACAAAGGTC TTATTGAAC AAGATTAAGA TGTCAGCAGG  
358301 GCTGTAATCC TTTATGGAGC CTCTTGGGAA CAATCCATTT CTTTGCCTTT  
358351 TTCAGCTTTC TGAGGCCCCC TGCAATCCTT GGTTTCATGGC CTTTTCCTCC  
358401 ATCTTCAAAG CTAGCAGCCT AGCATCTTCA AGTATCCTTC TGTTTCTGAC  
358451 CTATGCCCTC CTGTTCCACA TTTAAAGGAC GCTTCTGATT ACGTTTGACC  
358501 TATCCAGATA ATCCAGGATA ATCTCCCTAT TTTAGGGTCA GGTGATTAGC  
358551 AATTTTAATT CCATGTGTAA CCCTAATTCT CCCTTGACAT GTAACATAAC  
358601 ATATTCACGG TTCCAGGGAT TAGAAGGTGG ATATCTTGGG GGTGGGGCAT  
358651 TATTCGTCT ACCACAATA TCAAAAAAAG CATTTGTGTC ATAGTATTGT  
358701 ATTTGCCCTA ATAATCATGA GAAACTGGCA AATAAAGATC AGCTGGTACC  
358751 ATAAATTTTC AGATATTACC ATTTTTTTGT TTTTATTTT GTTCTTTTTT  
358801 TTAATGTTAT TTTAGTATCT TGGTTAAAG TACTATCATT TTGGAAATTC  
358851 ACATTTTTTG CCACTATAGC TGTATTGTGT TTTTATTTA AATTGATATA  
358901 GTTGAAACTC TAAAGATACA ACTGCAAGAA TATATGTGGG CAAATTTTTG  
358951 AACTATTTTG TGGATAAAGG GAAAAAGGGT AGGAATCGGA TGTTTTTCAT  
359001 CAGTTTTTAG GAGTAATTAC AAAGCTAACA GGAAAATATG TCTCCCTTCT  
359051 AAGATAAAG GAACCTGAAT ATTTGTCCCT AATATTAGAA AGCAAATGGC  
359101 TCGCAAAAT TCTCAAAGAT AGTGTGAATC ATATTCTTTT ATAACACTGG  
359151 ATAAAGGGG AAAAAAGTGA CATTTGGGGT ATTAACCTG AGATGAACAT  
359201 CCTAATCCAG AGAGTAGCTG ATCTTTAGAC CTACAGGCTG CCAAGTGGGT  
359251 GTTGTCAGAT GTTGAGTTT AGGCATAGAC AAATGCACTG GGAAGAGAAC  
359301 AGTGCCACTG GCTAGTCACT TCACTTCTGG GCCTCAGTTT TCTCATACCT  
359351 ATTTTGTGGT TTATGTGGT TGCTAATTAA GACACCCATC TACCTTTGAT  
359401 GTTCTTTAAA GTAGAAGAAA GAAATTTAAA CAAATGAATG AACTAAAAA  
359451 CAGAACAGAA ACCACCAAGA TGTCCTTCAA CAGGTGAATG GATGAATAAA  
359501 CTTTGGGAAG TCCAGACAAT GGAAGATTAT CCAGTGCTAA AAAGAAAATG  
359551 AGCTATAAGG CCATGACAGT GCATGGAAGA ACCTTAAATA TATATGACTA  
359601 AATGGAAGTA GCCAATCCAA AAAGGCTACA TACTCTGTAA TTCCAAATAT  
359651 ATGATATTCT GGAAAAACA AAACATGGA GACTAAAAA GATCAGTGGT  
359701 TGTGAGGGAT TAGGGGAAGG GAGGGATGAA TAGGCAGAGC ACAGAGGATT  
359751 TTTAGGGCAG TGTAACACT GTATTCACTA CAGTGCTGGG TACATCTCAC  
359801 TATATACTTG ACAATGTAAC AATGTAGGTT CATCACTTAT AACAAATGTA  
359851 CCACTCTGAT GTGAGTTATT GAGTATAGTG GGCAGGCTGT GTGTATGTGA  
359901 GGGCAAGGAG TATCTGGGAA CTCTGTACTT TATGCCAGT TTTACTGTGA  
359951 ACCTCAAAC ACCTAAAAA TTAAGTCTAT TTTAAAAATT AAACAGGGTG  
360001 GGAGGAAATG GAAGGGGAGA AAATAAAAG GCTACTCACT GAGCCTTTCC  
360051 TCATCTCCAC TGCTGTTTC GTCACTTTCA CGTGGATAGT TAGGACAGCT  
360101 TTTCTCTCC TCCAACCTTA GTATGCTCTA AGTTCACTAA AACAAGCATG  
360151 TTTTCACTCT AGTGGATACA AGGGAGAATC TGCTGTATGA TCCAAATAAT  
360201 TTTGTCTTTC TTAAGGTTT GATCCAGTAT AACATGAGTG ATTGGTCCAT  
360251 ATACTCAATA CATTAACTGG ATCAATTCGT GTTTTACAAC TATTTTTTGA  
360301 AAAAAATCAA CTCTGGAAGT CTTCTTAGA TCATTGTAC CCTTAAGAAT  
360351 TACTGTATTT CTTTCTAAAC CTTCTTAGA TCAATGTAC CCTTAAGAAT  
360401 ACACCCGTGC TGGATCAGCA AGGTCAACA GCCACCGCTG TGAGACAGGG  
360451 CTCTATGACT GGCTTATCAA AGAGTTGGCA TAGCTGAGGG GCAGTTCCCC

FIGURE 3YYYY

360501 AAAGAAATAG TTCACCTGTT CAAAGAACTA AGAAGCTCTG TTATTTAAAA  
360551 TTAAGAAAAA AAAAGTACAA GGGAAAGGAG CAGGGGGGAG AAAAGAAGAA  
360601 GGAAGGGGAA AGAAAGGAAA GATGAGGGGA AGAAAATACC ATGTTTCTTG  
360651 TATCAAGCCT ATCAAGACAC CTACCAGGAT GTTTTATAAG ATTTTCTTTG  
360701 ACACAGAAGG GGAAGTCAG TGTTCCTTCT GTATCAGAAC ACTTAATATA  
360751 TGAAAAATGAT TTTGCTTCAC AAAAAGTGTG AATATAAGTG TCTTGCACTT  
360801 TTATGTTTTG TCCCTGGAAG TCTAGGTCAG ATGCTCCATA AAGGTTTTGG  
360851 ATGTGATCTC TAAAGCATAT GTTCCACCAA GAAGTCTTTC TATATTCACC  
360901 ATCTCTCTGG TTTCCATGGA GGTGATGATG GAAACTTATG TATAATTTCA  
360951 GACTAGCATT GTGCTGCGAA TGATGTTTAT AAAATATTAA ATTCTGATAA  
361001 AGGGAATAAT ATTTTAAAGT CATTCTTAAT TCCTGAATAA TGCTGCATGT  
361051 TAATGGTTAG ATATCATTTG ACTTCAAAGT CTTTCACAAC ATAAACTTTG  
361101 ATTTCACTACT AGTATAAGTG ACCCGGTAGG AAAAAAAAAA GAGAGAGAGA  
361151 GAGAGAGAGA TGTTTGCTCT TCTTATAGGG TTAGGGAGAA TCTGCTGTAT  
361201 GTTCCAAGTA AATGTTTTCT ACCATTACCA TCTTGTTAAG CTAATGCAAA  
361251 AAAAGAACAG CAGTTTTCTT ACCCAGAATC CCAAATTTGA GTCAAGGCCA  
361301 ATTTCATAGG AATGTCTCTC TATGTAATGG GGAGTTAACT GTCTAAATCA  
361351 GGGATCATT AACTACAGTT TGAGGATTAA ATATGGCCCA CAAACTGTTT  
361401 TTGTGAAGCC CACAAGCTAA GAATGTTTTA CCTTTTAAAG GGATTGAAGA  
361451 AAAATCAAAA GAAGAATAAT ACCTCATGAC ACATGAAAAA TGTATGAAAT  
361501 TCTAATTTCCA ATGTCCATAA AGTTGTATTG GAACACAGCC ACACTCATTC  
361551 ATTTACGTAT TGCCCATGGC TGCTTCCACA CTGCAAGGGC AGATTTGAGT  
361601 AGTTCCAGGA GGAAGTGTGT TCTCCGCAAG ACCAAAACAC TTGCTGTCTG  
361651 GCCCTTTACA GCATAAGTTT GCGCACCCCT GATGTAAATA ATTGTTTCAC  
361701 CATCTTCCCA CCTCTGCACC GACACACATA TTCTTCTTAT CATCTCTTTC  
361751 TCCTTCTCTC CCTTCTTCTC TTCTCTTCA CACACACATA CCTCATTTTG  
361801 AATTTGGCAA TTATGATTAC TTACAGTAAA GGTAAGCGGA AATACATTTT  
361851 AATTTTCTCT TGTCATTTCT CTCCTCCCTG TCTGCTTTCC CTTTCCCTCA  
361901 CTGCCCTTAT ATAGAATGTC TGAGGGCTGT GCCCTTTTCC CAAAATATTT  
361951 TGTTTTTAAGG TGGGGTTAG ATCTTGGTAC ATTTTTTGAC TTCCATGGAA  
362001 AGTTTTGTGT TAGTATGTGG TCCCATTTTT AACCTATTTG CAGACACCCC  
362051 CGATTATCTA AAATCACTTT CACATGGGGC TGAGGTTAAG CTTTATTTCT  
362101 TTTGGCATGT CCCTACCACA GCAGACACTT CCTCTTTGCC TTGAAAGGAC  
362151 AAAACGATGT TCACTGTCTT GGGCTTAGGC CCAGTATTTG ATTTATACAT  
362201 TATTTAATTT CCTCTGAAA ATTGGAAGCA GGACTTTTCAG GAATAGAAGT  
362251 CAGTATTTTT CATTTGTTTT AGAATACTTC TAGGTCTAAT ATAATCATCA  
362301 GTGGTAGATG TCAGCATGAT TAGGGGGTGA CTTAAGGTAA AGCAAAATAA  
362351 ATGTGAATAC AAAGGAAAAA TATTTGACAA TGGAGAAGTT CCGAAGTTTT  
362401 TGAATAATCA TTATTGTATA TGTTATTAGG TTTTGGGGGT ACTACATTTT  
362451 GGGGCACCTG TCTTCACTTT ACCCATTGAA GGAAAGATGT CTATTATGTT  
362501 ATAGTTGCAA TTGTTGGGGG ATTAGAAGTT TGAGGAAAAT GTAATGTAAC  
362551 CCTTCCAGTA ATTTTACAGA GGATTTTGGG ATTTCTGTGT AGCTGCTACT  
362601 GCATTTGTCT TCACAATTAA GTTCATACGA ATGCCAGGAT GTGAATGCCA  
362651 AAATAGTTTG AGATTTTAAAC AGCAGTGAAC TCAGGAAATT AAAAAATTAAC  
362701 TCTGGAATAA CTATTTCATG TTTTACAACC ACTTTTGGAT GGTGTGTTCC  
362751 TTTTAAACC TTCTTAGAT CATTTGTACT CTTGGGTTAC AACCTGTCTC  
362801 CTTTTTACCA CCAAAGTTCT TAAAAGTCTA GCACACCTAC TGCCTCTACT  
362851 TCTCACTCA TAATTGCTT CTCAAACCTT GGCAGTCTGG GCTTTCCCTC  
362901 CCTCTGCACA CTGCTAAGCT GACCTCACTA TTTCTTCTC TCCAATTATA  
362951 ATAACCAGCT CTAAGTCTC AGCTTCTCTG ACCTTTTTCG TCCATCTGTC  
363001 AGAATTCGTA CCTCTTCTT AAAGCCCTCT TTCAGTTTTT ATGTGGGACT  
363051 GTCCTAATTT CCTCTACTTC TTCTGTCTT TTATAGACCC ATCTCCCTAG  
363101 TATGGAGCTG GGCCTAAGTG TCCCCCAGGT TCTGTTTCTT GGACCATTTT  
363151 TCTCCCTACA TTCTTAGGCT TTCCCTTCTC ATTTTCTCTC ATTACCTGAG  
363201 ACACTTCAGG AGAACTCAGA GGGCTGCAAA GAGCACAGTT TGAAAATCAC  
363251 CCGGCTCCTG TCAGACTACT TTTGAGTCTT TAATACAGCC CACCCTATGC  
363301 CACCTCTGTG CCTTCACATG AGAGTGTAAC TTAGTGTGGG AGTGTGCACT  
363351 CCCATGGAGT GCCTTGCCAC CAACACCACC AGTACATCTC TTCACATTCT  
363401 TCTAAAGCTT ATTCCTAAAG CATCTACTCT TTTATGTTAC CAGGCTCCCA  
363451 GTAGATGCTT TCCCTCCCTC ATCTGAGCTA TGGTGGGTAA AGAAAAGGTA  
363501 CCAGAGTCAG ACAGATATGG ATTTAAATAT GGATCCACCA CTTACCTGTG  
363551 TGTGATGTTG AACAAATTTA CCTAAAGGCT TTCAAATCAG TTTCTTCATT  
363601 TATAAATTGG GGGTAGGGGG AAGGATTTTA CCTACCACAT TGGATTGTTG  
363651 GATAGATTGG GTAACTTATG TGAAGGCAGA GAACACTTGG AAATCAGTGG  
363701 TGGTGGAGGT GGTAGTGCTA ATAGTGCTAA TATCACCATC GTCAATATAA  
363751 TTATTTCCAC AGCAGCATTT TGTTTCTCAT ATGTCAGTTA GTCACTGTA  
363801 CTTATTGCTT TGTTCTCATT TCAGAAATTC AGACTCCTCG AGGTTTTATT  
363851 TATATTCCCC TGTTCCCAA GAGCATAGAA CAAGGACTTA AGCATAGGTT  
363901 TTCCTAAGTG AGTTGAGTTG CATAGAATAG CTATTCTCCC CTAAAGGAAA  
363951 ATACTGACTC CACAGTGTTT TTAAGGTCAG GAGCTGGTAA GTTTGTAGCT

FIGURE 3ZZZZ



364001 GTCTCTTCAT ATTTTAATCA AACATTATCA CACTAAAAAA AATCATTGTT  
364051 ACATTTTGTCT ACTCTAAAAA TTGAACTAA GTAGTCTTTA AATTTTAAAT  
364101 TTTAATTCTT CCAAGAGTTA ATGACTTATA TATTTAGATA TAGGTGGTCT  
364151 GAAGTAATTA TTTTAAAAAG AACTACTTTT GTATTTGATG CATAAATTAT  
364201 ATCAGTAGTA AAATATTTCAG AGAAGAAAAA TTAATATACA AACATTAAAT  
364251 TGCTTTTGAT TTTATATGTT TGATTCTGTG TCTATCTTAT TTTTGATTTT  
364301 GTAAATCAA TGCCAACTGC AAAGTTTTTT AGCTTAAATA ACCAGCAGTT  
364351 TTTCTTTTTA CATGTTTTTA CTTACAAAAC CTTTATCCTC TATCTCTCAA  
364401 CATATTTCTG GAAAACAGAT TTTCTGCTTC TGGGAAACAT CACTTTTTCA  
364451 CAAATCACAC ATCGACCTGG TTATAAAAAA CTATAACTGC TTTGTTTGTT  
364501 GCTCTGAGGG CCAGAGTTGT AGATTAGGTT CTGCTGTGGA TTTCTGAAGG  
364551 CTAAGTAGGG GAAGGAGTGG TTGTGCTATT CCGATCTGAA CTTCTGTAAT  
364601 AGGAGAGTAG CAAAGCAGTG AGGAGTTGAA AGGCCTTTAA AAAAAAAAAA  
364651 AGTATACGTT CACATGGAGT CCTCTGAAT AAGTACCAGC ACCCCAAAGT  
364701 CACTAAAAAT ACTCCCCAAA TCAAGCATTG ATCACTCAGA AAGCCTTTAT  
364751 GGATCACCAG TTTTGACGGG CTCGGTATTT GGTGGTGTCC TCACAGCTTT  
364801 GAACCAGACA TGCTTCACCT GAGTTAAGGA CACCTCTACC GGCAGGCCCC  
364851 TAGAGAGTGG CTCAGGGTAC TGATGGGGTC AGAAAAGGGA GGGTGTGACC  
364901 AAAGAGCAGA TTGAGTCCAC ACTTTGAATA CTTTCAGGAA CTACTTGCAG  
364951 CCACTCAGGA ATATAAACTA GTATCACAGC TGAGAGCTTT ATTTAACATT  
365001 CCACCTAGTT ATAATCTTTA CCTAATCTCT ACTGTTTTTA TTTGGCTACT  
365051 AGCTATTTAG GTAAACCCCA TTTTGTGGA AGGCTGGCCA AGAGCACACT  
365101 TCAACTCAAT AGTAGTCAA GCCAGCTCTA CTGAACCTAC ATGAACACAT  
365151 GAGCACACAA ATTGTGTGGT TCTGAAGTTT GTGGGGGTAT TTTTGTAGTC  
365201 TTGATAAATG TTCATCTGCC TAAGCAGTAT ATACAATGTA AAGTTAAATG  
365251 TGACACCTGC TATAAGGCAT ATAAATTCCA CATTGCGTTA AAAACCAACT  
365301 TGTTAAGACT AAAGTCTTAA ATTAGTTAAC ATTAAGTCAG ATATCTTATT  
365351 TTATGCTCTT CATATATTTT CCTTCTTTCC TTCAATTGTT TTTTTCATTG  
365401 TTTCTATAT TTGTTGACCA TGTACTATGT GCCAGATAAG GTTCTAGGCA  
365451 CTAGCATCTA ATATTAGCAA CGAAAAATAA GAAGTCTATT TTGTGAGAGG  
365501 CAACAGACCA TCAACAAAAT AAAATATAGT ATGTGGCAAT AAGAGAGAAG  
365551 GAGCAAAATA AAGCAGGGAA GGAGAATGGG ATTACAGGGA GGGCTGCAGG  
365601 TTTTAATAGG GTGGCCATGG AAAACCTTGC CGAGAAGGTG GCATTTGTGT  
365651 AAAGACTTGA GGCGAGTGAA CTGCAATTAT CCAAAGGAAG CACATTTTCA  
365701 GGAGAGGGAA CAAGAAGTCC ACATGCTCCG AACACGAGTG TTCTTTGCAC  
365751 ATTTCAAGAAC AGCCAGGAAG CCAATGTCAC TGGAGTGAAG AGTGTGAGGG  
365801 GGTTCAGGG CCCAGTTGAA AAAAAGTGGG AGTAAGTGAT TGGTGTGCGA  
365851 TGCTGCTGAT AGATTAAATA GATTGAGAAC TGAGGATTGA CCGTAGGATT  
365901 AGTGACCTTG ACAGAGCAAT TCAGTGGGGG AGTGTTCAGA AGTGTCAATT  
365951 CAATGGGTTT AAATGAGAAT GGAAGAGAG GAAATAGAAA ATGGAAAATG  
366001 AAGAGAGCTC TTCCAAGGAG AGTTGCTAAT GGGAAATGAA GCAGATATGG  
366051 AGACAAGGAA GGGACTAGAT TACATCTATA AGGTGAGAAA TTACAACGTG  
366101 TTTTATGGT GGTGGTAAAG CTTGACTCAG GTAAAAGGAA ATGGAACCCC  
366151 ATGCATAAAT AGAAGGATTG ATCTTGCCAG CACAGATACT TCATCTATTG  
366201 AAACAGGAAA GAAAGTTGAG TATGTACATA CAAGTAGAGG GAAAGGGGTA  
366251 GACTCAATGG TGATAGCATG TTGAAAGTTC TTCTCTGCCA CATGAACAAA  
366301 CTTTCTTTCC AGTGCTTAAA CAACACCTGC AGTATCCTTC TCATATGGTC  
366351 ATTTGCATAT TATCTCTACA GCTGTCTTAT GTTTGGCCAG CTTATTAATT  
366401 GTTAATATAT CTCTTCTCT TATTGAGCAA AAACCTTTCT TCTAGAACAT  
366451 TGATCCTAGT TCTGCTTCCC ATAGCCTCCC AAGATGGACA GTTCTAATTT  
366501 TTCTATAGAA GAGCCTTTGA AGGACTGGAG GACTGATGTG GTTCTCAAG  
366551 GCGGACCTCA TTCTGCTGA TTCTAACACC TAGCCCTTCA GTGTTTCTGC  
366601 TGGCATGTGT GGTTCACACC CCTGTACAT TCAGACACTC TCATCTAACA  
366651 GGGCCCAAGG TATTTAATCA GTTTCATTTG CTAATCAGGC CTCATTGGTC  
366701 CGGGCCTTTG GTATCTGTTT TTCTCCAGG CTTTTTTCTA CATATTAGT  
366751 GTTTCCTACA AATACTAACA TTGAACCAGC ATGCCATTAA GATTATTTTA  
366801 TTTATTTTCA TAGCTTTAGG GGTACAAGTG GTTTTTGGTT ACATGGATAA  
366851 ATTGTATAGT GGTGAAGTCT GGGCTTTTAG TATACCCATC ACCCAAATAG  
366901 TATACATTGT ACCCAATAGG TAATTTTTCA TTCTTTACCC CCACTCCAC  
366951 CCTACCCCGT TCTGAATCTC CAGTGTCCAT TATACAATTC CATATACCTT  
367001 TGTGTACCCA TAGCTTAGCT CCCACTTAAA CATGTGAGAA ATGCAGTATT  
367051 TGGTTTTTCA TTCTGAGTT ACATCGCTTA GAATGACCTC CAGTTCATC  
367101 CAAGTTGCTG TCAAAGACGT TACTTTGTTA TTTTCTCTGG CTGGGTAGTA  
367151 TTCCATGGTA TATATACCAC ATTTTCTCCA TCCTCTTATT GGTGATGGG  
367201 CACTTAGGTT GATTCCATAC CCTTGTGATG GTGAACCTGA CTGTAGTAAA  
367251 CATATACATG CAGATGTCTC TTTTATATAA TGATTTCTTT TCCTTTAAGT  
367301 AGATACCCAG TAGTGGGATT GAAGGATCAA ATGGTAATTC TACCTTTAGT  
367351 TCTTTGAGAT ATCTCCATAT TGTTTTCCAT AGAGGTGTGA CTAATTTACC  
367401 TTCTCACCAC TAGTGTATAA GCATTCCCTT TTCTCTGCAT CCTCATCAAC  
367451 ATCTGTTGTT TTTCTGTTTT TGTTTTTTGT CTTTTTAGTA ACAGCTATTC

FIGURE 3AAAAA

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367501 TGACCCGGGT AAGATGATAT CTCATTGTGG TTTAATTG GAGTTCCTG  
367551 ATGAATAGTG CTGCTAAGCA TTTTTTTAT ACGTTGTG GCCATTGTG  
367601 TGTCTTTTT TGTGTGAAAA ATGTCCATCT GTGCTCTTC CCACCTTTTT  
367651 TTTTAAGTTC CAGGGTACAT GTACATGTTG TGCAGGTAC ATAGGTAAAC  
367701 ATATGCCATG GTGGTTTGCT GCACCTACCA ACCCATCACC TAAGTATTAA  
367751 ACCCAGTATG CATTCACTGT TTATCCTGAT GCTCTCTCTC CTGCCCCTCC  
367801 AATAGGCTA CTTTTAATG GGGTTATTTT GTTGCTGCTG TTGAGTTGTT  
367851 TGAATTCCTT GTAAATTCCT GGTATCAGTC CCCTATCAGA GGCATAGTTT  
367901 GACAATATTT TCTCTCATT CTTAGGATGT CTGTTCACTC TCTTGATAAT  
367951 TTCTTTTGCT GTGCAGAAGT GTTTTAGTTT AATTAAAGTT CCATTGTGCT  
368001 ATTTTTGCTT TTGTTGCTTG TGCTTTTGAG GTTTTAGTCA TGAATTCCTT  
368051 GCCCAGACCA ATGTCCAGCA ATCTTCTTGA GGTTTCTTT AGTATTTTTA  
368101 CAGTTTCAGT TCTTACATTT AAGTATTTGA TCCATCTTGA GTTCTTTTTT  
368151 TATACAGTGA GAGACAAGGG TCCAATTTCA TTCTCTGTG TATGGCAATA  
368201 CAATTTTCCC AGCACCATTT ATTGAAAAAG GTGTCCCTTC TCCAGTGTAC  
368251 GTTTTTGTCA TAAAGATTG TTGGCTATAG ATATGTATTA GTCCATTTTC  
368301 ACACCTGCTG TAAAGACATA CCCAAGACTG GGCAATTTAC AAAAGAAAGA  
368351 GGTTTAATTG GACCCACAGT TCCATGTGGC TGAGGAGGCC TCACAATCAT  
368401 GGTGGAAGGC AAGGAGGAGC AATTCACATC TTAATGGAT GGCAGCAGGC  
368451 AAAAAGAGAG CTGTGTGAGG GAAACTCCTG TTTTAAAAAC CATCATATCT  
368501 CATGAGACTC ATTCACTATC ACAAGAACAG TGCAGGAAAG ACCCACCCCC  
368551 ATAATTCAT CACCTCCAC CCGGTTCTTC CTACAACACA AGGGAACTGT  
368601 GGGAGTTAAA AATCAAGATG AGATTTGGGT GGGGACACAG CCTCAATGAT  
368651 CCATCTACTG CTGTGTGGT AGCGTTTAAG TCTCCCACTA TTATTGTATT  
368701 GCTCTCTGTC TTTCTTAGG TCTAAGAGCA TTTGTTTTAT GAATCTGGGA  
368751 ACCCTGGAGT TAGGTGCATA TTTATTTAGG ATTGTTATAT CTTCTTGTTG  
368801 AACTGATCCC TTTATCATTA TATAATGACC CTCTTCGGGT TTTTGTGTTG  
368851 TTTTGTGTTT GTTTGTAATA TTATTGATTT AAAGTTGTTA ATCTGATATA  
368901 AGAAAGGCTA TTACTGCTTG CTTTGGTTT CATTGCACTG GAATATTTTT  
368951 TTCATCCCTT TACCTTGAGT CTATAAGAA CTTTACCAGT TAGGTGGGTC  
369001 CCTTGAAGAC AGGAGATATT TGGCTTGTTT TTCTTTATCC ATTCCACCAG  
369051 TCAGTATCTT TTAATTGGAG CATTTAGATC CACTATTTAG ACCCGTATTC  
369101 AACATTAATA TTGATATGTG AGGTACAATT CTAATGATCA TTTTGATTGT  
369151 TATCTAGTTG TTTGTGTTT TTTATATGTT TACTGTTTTA TAAGCTCTGA  
369201 GTTTTATGCT TTCAAATGTT TTTATACTGG TGCATATTGA CCTTTCATTT  
369251 TGAAATTTAG AACTCCTTTT AGCATCTCTT GTAGGGCTGG TCAAGTGGTG  
369301 ACAAATTTCC TCAGCATTTG CTGTCTGCGG AAAGTTTCTC TCTCATTTAT  
369351 GAAATTTAGT TTTGAGGAT AGAAAATTCT TGGCTCCCCA TGGGAGAAGC  
369401 ACCAGCTGTG TCTACAGTGA TGGGCTGACA GTTATTCTGC TTTTGAGAAG  
369451 ATTAAGATA GGACACCAAT CTTTCTGCGC TTATAAGGTT TCTGCTGAGA  
369501 AATCTCCTGT TACTCTGACA GGTTTTCCTT TATCTTCCCT TTCAAGTTAT  
369551 CTGATGCTTT TGCTCACTA CTCTTAGAAT TCCTTCATTC ACATTGACGT  
369601 TAGATAGCCT GTGAATATA TGCCTTGCTG ATGTCCATTT TGCAATGAAT  
369651 CTCCTAGGAG TTCTTTGAGC TTCTTGATT TGGATGCTA AGTCTCTAGC  
369701 AAGACCAGGG AAGTTTCCCT CAATTATTCT CTCAGATAGG TTTTCTGAAT  
369751 GATTGCTTTT TCTTTCTCT CAGGAACACT TATGATCTT AGGTTTGAC  
369801 GTTTATATA ATCTCATATT TCTTGAGAC TTTGTTTATT TCTTTAATT  
369851 CTGTTTCAT TATCTTTTC TGATTTGGTT GATTCAAAAG CATTCTCTC  
369901 AAGCTCTGAC ATCCTTTCTT CTAATTGATC TAGTCTGTT TTAAGACTTT  
369951 GCATTGCATT TTGTAATTCC CAAAATATGT CTTCAATTTT AGAAGTTCTG  
370001 GTTTTTCTTC AAAATATGTC TCTTTAGAAA ACTTTCCATT CATATTCTAA  
370051 ATGTTATTG TGATTTCTTT ATGTTGGTTT TCAATTTTCT CTTGGATCTC  
370101 ATCGAGCAAC TTAATAGTCA GCATTTTGAA TTTTATTATC TGGCATTTCA  
370151 AAGATTTTGT TTTGGTTTGG ATCTATTGCT GGGAGGTTAG TGAGATCTTT  
370201 GGAGGGTGTG GTAGAACTGT GCTTTTTATA TTGCAGAATT ATTTTCTG  
370251 TTTCTTATCA TTTGGGTAGA CTACTTTTTC TTACTATTTT TGAATTTATT  
370301 TTTTATTCTA CTGGGTAAA AAAAATTCCC CTTGAGAATT TGACTTTAAT  
370351 GTTTGCGGTA TAGTCACCTA GCTTAGGCTC TGAGTGCTTT CAGTGGCAAA  
370401 GACTTTCCAA GTTCTTTGGT TATAAAACAT CTTTGACAG TGGCTTTCTC  
370451 ATATGCTGTG TGTAGTACCA GTGTGCTGGG TGTGTGAACA GGTTCAGTGT  
370501 CTGTTGGGCT TGGAAATGGCA GAGGTCCCAT GAAGCTTACA TCATTCTCCG  
370551 GTGGTGTGTA CTTTTCAGTT TTTTCCCAT AATATTTTTC ACTGAGTTGA  
370601 ACAGTTGAGC TTTTGGGCA GTAGGAGGTA CCCACAGGTA AAAACAGCTG  
370651 CAGCTTAAGC AGATGGATAT ATGCAATACC CCAGTGGTGG ACAGAGTCC  
370701 CAGCCTTGAC AGAAGCAACT GGGGGAGCTC TCCTTGAAAG GCACTGAGGT  
370751 CTTTGCAGGA GAAAGGAGG GAGCCACCTC AGCTTCTCTT CCAGACCAGC  
370801 ACGAAAGCAA TCTGCTCCC TGTCACTC ATGTGCAAT GTTCTGGATA  
370851 TTCAGATCAG ACGAGGCACT TCTGTGGATC TGCAGAAATG CTGACATTCA  
370901 TGTAGAGAGG GATTGTGAAC CTACCCCAA GTGCTCCAGA AAGGCCATCC  
370951 ATAGGTGCAC CCCAGCCAAG CTCCTGTGGA GGAGTCCAG CCACGTCTGC

FIGURE 3BBBBB

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371001 AGTGATAGGC AAAGGGTAGA AGTCCCCTTC TCCAGGTCCC TTCACGAGCA
371051 CTGGGGCTGC CCAACTGCTG GGGTAGAATG ACAGTCTTTC TACCACTTAG
371101 CCCAGCACTG CATCTGTGCC TCTGCTGAAA GAAACTTCCC ACAAGCAGAA
371151 AGTTCTAGGA CTCAAAGGCT GCACTCTAAT TAATTTTGTC CCACAGGGTG
371201 CTCCCTTGAT ATGGTACCCT TTCCCTTCCC CTAGGAGTGA CAGTCCCTTA
371251 GGGCAAGACT ACTGTAAATA CTGCTGCTTC TCTAGGTATA GCCACCCTGT
371301 GGGGGCTGCC ACAATCCAGG CTGGTGCTGG GGAATGTCTA CAAGGGATCC
371351 AGTGATGTGA AGATAACAAG GTTGAAGGAT CCTGAGCAGA ACAAAGTCCC
371401 ACAACCTATG TGCACGAATA TGGCAGCCGC TACTACAGCT CAGGCCTAGG
371451 GCAAGAGGGA AGGGACACTA TGCAGACAAG GCAGTGCCCT CAAGAAGTCC
371501 CCAAATCGCA ATCCACTCCT GTACTTTGTG TTACAAGGGC AGAGACACTC
371551 TGCCTGAGTT CAGATGCCAG CAGTCTGCCA CAAGACCTAG AGATGCTGAG
371601 AGCACTCCCA CCTACCCCTT CCAAAGATTA CTGAGCCTCT GGGGGTTTGA
371651 CCTCTGCCAG CTCTCTGTAA AATAAAGCAC ACTTTATTTT GTGGCTGTAT
371701 CATAGATTCT CCCAGTGAAC TCTGTGATAG GCTCTAGCAC TCTCCCTTA
371751 ACACCTCATT TGGGCTATGA TTATTCACCT ATAACCTTTG TTCTTCCTTC
371801 TGAGGAGAAT TGGTCACCCG TGTCTCTTAT CAGCAAGCTG GAGAAGTTTT
371851 CTGATGCCAC AGGCTGTGGA CAGGTCTGCA GGATGTGCAG TGGCTTGGGC
371901 TCTGCTCTTA GCTTCAGAGG GGAGTGATGT TGGGTGGAGC TGAAGTGAAC
371951 TTCTCTGCT GTCCCAAAG CAAGTGCAAG CACCAGCTCT GATGAGGGTG
372001 GCAGGGGAGC GACATAGACT CTGTAAGATT TCTTTGGTTT TAAATAGCCC
372051 TAGTGTGGCT CAGTGAGTGA GAACTCACTG AATATAGTTC TCAGATGCCA
372101 GCTATGGAAG TAATGTGCTG GGCACATGAA CAGTCTCACC ATTAAGTTTT
372151 TATCTAATGT GTTTATCCTT AGGATGAGGC CAAGGACAAA GTACAACCAT
372201 CAAAGAAATCC TTCCCAAACC TATCTTTACC CATTAGTTAA CCCCATCTAG
372251 ACAGGATTGT AATTTCTAAG TATTCACATG ATCCCAGGTA AATCAACATC
372301 AAAACCAGGA GACTTGGTCA GATTAAATGG TATGGGGCAA AGAAAAAGGG
372351 GCATATTTCC AGTGTGTTGA AGCCAACATG CCTGGGAGTA TAGTGTATCA
372401 CTGAAACACT ATACTCTGAA ACACCTGAGT AGTAGGGCAG GCAGTTTCA
372451 AATCAAGATG ACACATCTAA TGTGGAACAC TGTGGGTGT AAGTACCCAA
372501 CCTGAGCTAA AGATGAATAT TTCACAGTTA TTTGCATAGG AGTGATACTT
372551 AAAAGACATG AGAGTAAATT CATTCTTTGA GAGATTATAG GTAAAGACTA
372601 AAAACCAGGG GCCAAGGATA ATACATCATA TGTCTATGTC ATATAAGTAT
372651 ATGATCTTAG GAGAATTAGA AGCTAGTCTT AGCACATTAT CATGTACATG
372701 AAAAGTTGAT GTAAGAGAAC CATACTGGTT TGCAGCACCT GTATAAATAC
372751 AACCATCCTA ATTTTCTAT TATCACTTCC TCAAGCCCAT GATTGCTGCT
372801 TCTGACACTT TAGAAGCAGT GTCTGAGCTG ATCTTAGTAC CATGACCAGC
372851 CCCATTAGCA CTGCTACCTC CTTTACCATT ACAACAGAGT ATCAGCAGCA
372901 GTGGTGATCA CCAGAAGACT GAGTGTGAGT CAGCTCCAGT AGCCAAAGCTT
372951 AGGAGAAAAG GCAGGTCAGT TCGATAGCAT GAAGCCACTT GGAGATGTGG
373001 AAAGGTAGAG CTGTGACTAG AGCTGGCAGA GGCATAAGCC TTGGAAGGCT
373051 GGTTGGGGCA AGGTGAAAAA TGGGAAGGAC AGAAGGAGGT AAAGAAGCCA
373101 GAAAAGGCAA AATTTTACCA GGTTCCTTCC TCTTTACTGG AATTTGAATT
373151 TTGTCTTACT TGCTGTCTTT GAGACTTTGA CTGACATAAA TAAATCTTAA
373201 GACGAAAAGG GAACAAAAGA CTGAAAACAG CTCAAATATC TTTTACTTGA
373251 AACTGGGTTA AATAAACTAT GCTCCTATAA AAGGAATGAG AAATAGCTCT
373301 CTATATAGCC GTGAAGTTGT TTCTAGCATA AATTGTTAAG TGAAAAAGAC
373351 AAAGCAGAGC CAGACGCCGT GGCTCACGCC TGTAAATCCA ACTCTGGGAG
373401 GCCAAGGCGG GCAGATCATT TGAACCCAGG AGTCTGAGAA AGTTGAGAAA
373451 CAGAAAGTTC TAGGACTCAG AGCCTGCACT CTACCAAAAC TGGTGAAAAC
373501 CTGCCAGCAT GGCAAAACCC TGTCTCTACC AAAAATACAA AATTAGCCAG
373551 GCATGGTGAT GCGTGCTGT AGTCCAGCT ATTTGGGAGG CTGAAGTGGG
373601 AGGACGGCTT GAGCCCAAGA GATCAAGGCT GCAGTGAGCC AGCATCACAC
373651 CACCTACCA GCTGAGCACG ATCTTGTCTC AAAAGCAAAA CAAAACAAAA
373701 AAAAGATAAA GCAGAGAAAA GCGTGAATAC TATGCTAACA TTTTTCGGGA
373751 AGGTGGCAGG AGAGGTGGGA AAGCGTCCCT TTATCAATAT ATCCCAGCTA
373801 ATGAATGAAG AAGGAATAAC AGAAATAGGA TAGCATCATT TTGCAGCCCT
373851 TCATGAATCA AAAGACCTGG ACAATCATAA GTGGCTACTA ACACATGAAA
373901 AGAAGAGCAG CCATACATTA TGTGCATCTC AGCAATACCT ATGAAGTACT
373951 TGTTCAAAAA AAAAAAAAT CAAACCTGAA ACTCCCCAAG CCTCTAGATC
374001 TTAATACAAG TTAATAAGAA ATACAGGAGG CAGGAGATGT TAAATAACAC
374051 CAGAGGGATG CAGGAAGCAA AATAAGGAAT ATGGGAGACT GGATAGGATA
374101 TATAATTCTG TTTCTTGAAC ATAAATTTTA AGGGAAAAGA GAAAGAGAAA
374151 TCCCTTAGAT ATGAGATATA GTAACATAAT GTAATGTGTC ACACCTATTC
374201 TGATCCCAAT TCAAACCAAC CATCTGTGAA ATATACTGAC TGGTAAATGT
374251 GAACACTAAC TAATACTGTA TAATGTTAAG GAAATGTAGC TAATTTTAAT
374301 GTGGCATAAA AGTGTACAG TATATCTTTA GAAATACACT AAAATATTTA
374351 TGGGTTAAAT ATTGTGATTC TGAGATTGTC TTCAAAAAAT TCAGTGCACT
374401 GTTGGAGATA GGATTACAGT GTAGATGCAA CAAAATTGGT CATGAGTTGG
374451 TCATTGTTAA AGCTGGGTAG CAGGCGAGTG ATTTCACTCT ATACTGTTCT

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FIGURE 3CCCCC

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374501 CTGTACTGTT GTATGTGTTT GAATTTTCTA TCGTTAAAAA ATATTAAGAA  
374551 GAAAACAAAT AGCATTATCT TTTCCCTAAG TGTTCACAAT CTCCTCTGTC  
374601 TCCCCTTTCT CCTATTTTCT AAGGAGAAAG AATTGAGCAA GTTTACAAAG  
374651 TGGGGTGGAG CTGTTGTGAA AGATACTTCA AATCATTTTT TAGCTACTCA  
374701 GAATTATAGC ATGAAGTCAA AGTTCTCTAG GCTTGAATG CTGTGTACCT  
374751 CATTCCTCCC CTCCAACACA TATTTCCAGT TATACGCACA ATTTTAATTG  
374801 ACTGTAGGGA CTATCTTCAA ATAACATTTT CATAAACTTC CAACTGAAC  
374851 CGCCCCAGAT TGGAGTTTTG TAATCTATTA GCCATTTCATG ACCCCTCCCC  
374901 TACCACAAAA AAAAGTTGTT TTTGTTTGCT TTCTCTCTG ATTTTCATTT  
374951 AGACTTCTTT CTTTGCCAAT AGATTTAACA CAAAGATAGC ATTTTCTAAC  
375001 TTTGACCATA ATCCATACTG GAATCATCAT TCAAAAAATA TGGCCTAATT  
375051 GTTCTACAAA ATTTTATAAT CATTTTCAAA GAAGTTGATT GGTGGCCCTT  
375101 GAGGCTTTTC AACTTTATCC TATTTTGGAT GATATCTGTG GCCTAGAAAT  
375151 CAGTTGTATA GCCCAAAATG TTACCTAGAC TACTAATGAA CAGCAAGGTC  
375201 TAAGGAAATG GCAACTAGAG GCCGGGCGTG GTGGCTCATG CCTGTGATCC  
375251 CAGCACTTTG GGGGGCCGAG GCTGTCAGAT CACAAGGTCA GGAGATCGAG  
375301 ACCATCCTGG CTAACGGTGA AAGCCTGTCT CTACTAAAAA TACAAAAAAT  
375351 TAGCCAGATG TGGTGGCGGG CGCCTGTAGT CCCAGCTACT CCAGAGGCTG  
375401 AGGCAGGAGA ATGGTGTGAA CCCCAGAGGC GGAGCTTGCA GTGAGCCGAG  
375451 ATTGTGCCAG TGCACTCCAG OCTGGGGGAC AGAGTGAGAC TCCATCTCAA  
375501 AAAAAAAGAG AAAAAAAGAG AGAAAATGGC AACTAGAAAC AAGCAGCCCC  
375551 ATTGCAGCAC GCTGAACACC GTTTTTTGGG AGCATGCACC ACTGAGCAGG  
375601 AATTCCAAAA TGGCACCTTT GCAATAGTAC ATTTTGAGGC ATTTGTGTTG  
375651 CAAGACAGAA AGAAGAGAGG AAGCAGTGTA TAAGCACCAC AAATTTACAT  
375701 ATACATAGAA AAGGATAGAG GGCAGTTTTT ACATCCTCTC TCTCATTTCC  
375751 TCCACCAACC AACAATCGGC CTGACTCAGA TTACCTATCC AGCCCTCCTA  
375801 AGGATCTTCA CTTCCTCCCC CTAGAAAACT ACAGAGTTGC TCTGTTGTCA  
375851 CAGTGTGAAA ACACACACAC ACATGCATGC GTGCGTACAC ATACACACAC  
375901 ACACACACAC ACACTTGATT TGGTGATAG GAAGTGACCT AATTGAGTTT  
375951 GTCCTCATCA TAGTGACAAC TAGACTGAGC CAATCAGAGA CTTTCTGTAG  
376001 GGTTTTGATT ACTGGAATTG AGAAAATGAG GGCTTTCTGG TGGGTGAAGC  
376051 TGTGAGATGT AAAACACAGC AACTGTTCTT GGTGATGTGA AGCCAAAGTA  
376101 CGGAGAGAGG CAGAGACAAA AACTCTCTTC ATCGAGACGG AATCCCGATG  
376151 GCATCCAGG CCCTGCTTCC AGCTGGTCCG CTGAGGCCCA GCCCACTGCG  
376201 TTTCTTTAAG TTCAGTTTGA CCAATAATA TCATTACAAT AAATTCCTCC  
376251 TTTTGGATTG AAATTGGCTT TCCATCCCTA GCAGTTACGC CCTAATATAC  
376301 AGCAGATGTC ACAACTGATT TCACATATTT GGAGAAATAG GAGTAGCTGA  
376351 GACAGAATTT AGTCTACCTT GCTCAGAGAC ATTCACAGAT AGTGTGAAAA  
376401 CCACATGATA GTCCCTTTTG CTTAAAGTTA CCCTGGTCAT GTTTATTACA  
376451 GCATGTAAAG GTACATAGCC TTAAAGTCTT TTCAGGACTT GGGATTTTTT  
376501 TTAAAGAAAA CAAATCAAGA GTGTTTATTA AAAGATTGAT ATAAAAAATT  
376551 AATAATTCTG AAGTTAAACC AAAACTTAAT GTAATCTTCC ATTGGAACAT  
376601 TTGTTGATGT GTGTGGGGG TTTAAATTCC ACAAATATTA TTAAATGAG  
376651 CAATCAGCAG CAAGATGTTT TAAAATATTT TGTTCGCA TGTAATATCT  
376701 CGTTTTATTA CAGAATTATT TTGTTAAAGG CACAGCTATG CCAGGTTGCT  
376751 GCCAGAGTGA TAGGATCATA ACAGCCAGT TAATTTTAAA AGACTCACAA  
376801 GTGGTAGGCC TTGGAACAC TGATGGCAAC ATGTACATCA CATTTTAGTA  
376851 TAATGCTTAA ACTTACACCA CATCTTGTGA ATTTATATGC ATCTGCCAAT  
376901 GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTCTGT GCACGCATGC  
376951 ATGTAGATAC ACATATATTT ATTTCAAAGA GAAGAGAGTT GGTGGGAAGT  
377001 AGGACAGACT TGTGAAGTAA TTAAGAATTT CTACTGGCTC TCACATTCTT  
377051 CAGTGTAAC TAAAAATGTT ACAAAGATA TCTTGAATAC ACTGTGTCAA  
377101 AACTGGTCTG GTTTTATTTT CAGTTAGTTG CCAGCATGCT AAAATGGAGA  
377151 TGCTTGCTAC CAAGGTGTAG CTGTGCTAAA GTTTAGTGAT TAGATCTCCA  
377201 AATGAAAAAG TACAGCCTAA AGAGGAAATT CTGTGGCACT GTTTCAATTA  
377251 TCTCCTCTTT ACAACATTAT AGGGTGCTTT CATGTGTATG TATTATCATT  
377301 CATAGTAGAG AGTACATTGA CTAAGATTGC AAAATAGTTT CCATTGTATC  
377351 ATAATCCCTT TGTGTCCAGT TGAATCACAT CTCTGAAAAA TTTCTGCTCA  
377401 GTTACAAATG TCTGCTGGTC TCTTTCCAAT GATACTTTGT TTGTTTGTTT  
377451 GATGGTTGGA AATCTGAAGA AAGTTCACTT AGTTAAAAATG GTGATGTAAA  
377501 GTATATGAGT ACAGTCTAA AATTTACTAA ATGTACATAC TCAAAATTAC  
377551 TCAACTTTAG GTCTTCAGAT TTTAAAAACT AGATGAATAA TCTATCCTTT  
377601 AAAAAATCAC CATTAATTCT TCAAGTATAC CAACTGCTGC ATTTCTAATA  
377651 CAAAAACAAC CTTATCAAGT GATAATTTAA TTACACCTTT TAAATGAAAT  
377701 TTTAAAAACAT GATTTATTCA TGAAAAACAA GTAGTTTCAT CCACCTTTCT  
377751 TTTTCTACAA CTCTTGCAT ATCTGTGGCC TGCTATTTAT TACAGCCTTT  
377801 CTCATAATTT TTAGTGTAGG CTTAACAAGC ATATAGTTTT AAATCTTTCT  
377851 TTAGGAGACT TTCTGGCTTT TCTCATTGCT GAATTCGACA CAAACCTTAT  
377901 TCTCTTATTA GCATTCTTGC AAGGGAGTTT AGGTAATAAT AGTTAAGAAA  
377951 GAATGTTTAA GTTTGATAGT ACATTAAATA ATAGACAATG ATCAGAAGAG

FIGURE 3DDDDD

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378001 GAAAAAATG CATGGGTATT TTGGTTAAGG TTTTCAAAC CTAATCATC  
378051 TTTATTCTCC ACCTTGGCCT GAACAAAGAA TAACTATAAT GAAAATTTGG  
378101 CCTATGTGGC TTTTACACGT ATGTGTTATT TCCTTCCGTT ACCTCACATA  
378151 TATAATTTTT TGTGTGTTAAA ATGCAACAGC TGGATCTCGC TATTGGCTTT  
378201 CAGATCAGTA AAATCAGAGA TTGCCCTTTC TTTGCTTCCT TTTTAGTGGA  
378251 CCTGCAGGAA ATAGAGTTCA GAGTGTAACCT CACTCCTTAC AAGACAACAG  
378301 CCCATATAAT TTTGCAGATA AGGAAACAAC TCCTTCAGTT TCTAAATACC  
378351 CAGTATATAG TGTGTGTTATC AAACATCAAC ACCTGTATGC ATTTAAATTC  
378401 ACTCACAGTT TAAATGAAAT TACACATAGT TAATACATGC CACTTGTAAG  
378451 GTCTAATCTT ATCTTGGGAA CTTGGATTTT GCATTCCCTTA ACTAGTGTGC  
378501 TTAAATTTTC AGTTGTATTA TCCTATGTTT TTTTGTGTTT TTTTFTTAGT  
378551 AGATGAAAAT AAGACACAGG TGTTTAGGTT TCTCTTCATG TCGATAAAGA  
378601 TCTAAACAAG CATTTAGTTA TACTTAGGAG CAGCTGTTGA AATTTTCTAG  
378651 GGTACAAAAG AAGGATCTAA CAAAAATAAA CCCACTCACC TCTAGCATGA  
378701 TTAGCTCCAT TTTGTATTTT CTGTACTCCC CAACTGTGAT AATTCCAGCC  
378751 AAACGTGATT CTGGCCTAAG TCATCTGGAA AGGGGGAAAG CAGGTGTTAT  
378801 TATGAAGCAT TCAGAGGATT TAAGAAGATT TGAAATATAG TTAATATAGA  
378851 GCAGTGATTC CTAACCCCTT TTTGGTTTTG GATCCTTTTT AGACTATAAT  
378901 GAAAGTTTTG AACCTTCTCT ATAGAAAAAT ATATAATATG TATACATGGG  
378951 TGTATGTTTT CATAGGTTTC AATGTATTCT TAGATCCATC TAGATATCCA  
379001 TAGACTCTCA GTTAAGAATC TTTACTATGT GGCCAACAAA CACACAAAAT  
379051 TAGTGAAATA CCAATTGAAA TAGTATCTAG TTCATGTAAC AAAGATTGCT  
379101 TTATTATTTG AAATTAAAAC AAAATAATAT AATGTGAGCT TCTAAATAAA  
379151 TGGCTTATAA ACAACATAAG TATTACAAGT CAGAGGAAGC AGAGACCACC  
379201 TTAAAAATAT AAAAAATAAA AAGATACATG AGTGATACT GGGTATTTTC  
379251 AGAATATCTT ATGTAATTGG GATGATGTGA TTTCACTCA TTTACATCCT  
379301 TATTTATTTA TATGCTAGAT GGGAAAAAAA AGAAGTTTCT TCCAAAAAGC  
379351 ATACCACTGT CAATGAGTAT GACATGCATA AAATAAGTGT AATATAAATA  
379401 ATTCTATTTT TTCTCACTC TATGTTATGT GCTAATGGTA TACTTATTGG  
379451 TTACTACAAA GGACCTATCT TCATCTGCC CTTAGCTAGC TACAGATTGT  
379501 CAAGTCATTT TTTCCCTCTG TTTAACACAG ATAGCCATTA ACACCATGTC  
379551 ATCTTCTTTA AATGTAAAAT CATTTAGGGA TGCCAAGCAA ATCTGCTGAT  
379601 TAGCTCAGGC CAGCCTACAC CAGATTGGAG AATGGGAAAG TAGTGAAAGA  
379651 CACGCATTAC AGATTAAGAC TGGGTATAAA GAGAAGACTC TAACAACCCA  
379701 CCCCCACCAA ATATGCCACA CAAGTGCTCA GAGAGACCAG AGTCCCAAAC  
379751 TAGACTACCC AGGTGAAACT ACAGAGTTTC ACAGGAGGCA GCTTTATGTG  
379801 TGTGTCAATG GGGCAAAATG TGAGGGCTGG CAGTAAAGAA GTCTGACAGA  
379851 TGAGGAAACA TGGGGAATAT TAAAACAGT TTAACACACT TGCCACACCC  
379901 ATCCCCCGAG CGCTTCTCTC CCAAGCTCCC AGAGCACCAG CAAGGAGGTT  
379951 GAGACACTCT AGACTTGGGG AGGAGTCTTG AAGTTTTTCA GGAAGTTTGC  
380001 TTGCTTTCTT CTCCAAGGA CATCCCTGT CCTCCTCTCC TCTTTGCCCA  
380051 GGACCAACCT CAAGCTCTCC CATTACATGA GTGCTTTTAC CCAAAGTGTG  
380101 GTGCCCTTTC CAGAGCTGTC AGCTTTCTGG CTATAGCTTG GATATCAGCC  
380151 CCACAAGGAC CCACAAATAC AAACCTCAAC ATAGGATGAC TTAAGTGCC  
380201 TGATACGTTT TTGCCTTTTT AGTCCATAGT AGACAATTAT CTGACTATA  
380251 ATTGTCCAG CAGGAGCTGC CTCTGTGCT GTGTATATGC GTGTGATTT  
380301 TTTTTTCTA AGGCAAAAC TAGTTTATAT CTTTGTCAA AGATGACCTT  
380351 AGCAGGAGAC CTTTTTTTTT TTGGAGTTGA TCGGTAGGTG AAGCCATGTG  
380401 CTAACCTGGC TTGTCTGGGT ATGTCTGGGA AGCAGAGCAG GACCAAGGCT  
380451 GCAGGGCCTT TATGGAATTT CTGTGCTAGG AAGGGAGATA GACATTTAAC  
380501 ACAAATATCT CTATATCTTG ACATTTGCGA TATGGCAGGA AAGTACAGGC  
380551 ACCTATGGGA CTATAAACT GATCCTAAAA CAAGCAGGCA TGAGGAGGTA  
380601 GTGAGGTAC CTCTAGGAAT GCCTCCTCAA TGGAAACATT TGCACTGAAC  
380651 CTTGAAGATT AGGTAGATGA GCCAGTGCTT TTGCACACCT TGTTCATGA  
380701 AAGCAAGACT GTTTTTTTAC TGTGTGATTC CCCAGTGTCT GCTTCTTGT  
380751 AGGTGATCAA TAAAGATTTT TTGAATAAAT GAAAGAATAA GGGGCTCCCA  
380801 ACATCTGTTT GCTCTCTTAT CCCTCTCCTT CCTACCCAG TGGTTCTGT  
380851 TCTCTCCATT CCTTACCAA CTGGTATGTT ATTTTTAAAA CTAATAATAC  
380901 TCTGTTTTAT CATATTATTA TTCAATTAAA GTTAGAAACA TTTAAATACC  
380951 CCATAGATGC AAATGCTAGA ACAATGAAAT AAAAGCTCAA GATTTTTTCT  
381001 GCCCCCAAAG CTCTGTGGAA TAATCAATTT TATAAATTTT TAAAAACAA  
381051 AAACATTTTG GAAGGCTGAA GCAAGAGGAT TGCTCCAGCC CAGGAGTTCA  
381101 AGACCAGCCT GGGCAACATT GCAAGACCCC GTCTCCTAAA ACAAATAAGT  
381151 AAATACAATT TTAATAAGGA AAAACTAGGC TTCACCATGC AAGTTTATAA  
381201 TGAAAGGTTA TACACTGAAT ATATACTTTA GCTATATATT TCAAAGACCT  
381251 CAAGATAACG TTAAGGCCGG GCATGGTGGC TCACGCCATAT AGTCCCAACA  
381301 CTTGGGAGGC CAGCTGGGGA GGACCACTTG AGGCCAGGAG TTAGAGACCA  
381351 GCCTGGACAA CATGGTAAGA CTTATCTCT ATAAAAACATA AAAAAGCCAG  
381401 GCGTGGTGGC ATACACCTGT AGTCTTAGCT ACTTGGGAGG CTGAGGCTGG  
381451 AGGATCACTT GAGCCCAGGA GGTCAAGACT GCAGTGACCC ATGTTCAAAC

FIGURE 3EEEE

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381501 TACTTCATTC CAGCCTAGGT GACAGAGAGC AACCTGTCT TCAACAAAA  
381551 CAAACAAACA AAAACAACCT TGAATCAGCA AAATTAAGCA ACCAAGTGTG  
381601 TTCCCTTCT CTAATGTCAT TAAGCTTTGA GTGTGTCTTT ACAGAAATTT  
381651 TTATTTTCTT ATGTATGGCA TCCTAGATTG TATGACTTTA ACATAATCCC  
381701 AGATGGATTA ATTATCATGA AGCCTATTTT GCAGACGATT CAAGGGAATT  
381751 TAGCCCAAGA GCAAAAGTTA GGTAATTCTT TAAATCTGAA ATCTGTCTC  
381801 TGAAATACTA CTCTACTCAC CGCTTAAATG GTTTTCAGTG AAGTGGCATT  
381851 TTAAAAATAA GTGCTGCTTG CTTTACCTCT GAATTCCTT CTCCAATGCC  
381901 ATTTTACTCC CTGAGCTGCT TTCTTGGCAG TTTGGGGCAC CCTTGTCTGT  
381951 TTGTGCTGT GACAGTCTGA CTTCCATCTG CTGCTCTGCA GCCAGGAGCC  
382001 TGCTGTGCTC CCTTCAGTCA CATCTTTCAT GCCTGGCCAT TCAAGCACCT  
382051 TTATCAGGT CTCAATGGGC CTGGGTAAAG GGCCCTCCCC CTGCATCCAC  
382101 ATGAGCACAT AATCTCCAG GTAGCCTCCT CCTTGAAGCA CCTCCAGTGC  
382151 ATGTGTTGCG AAACAGCAGG ACATCACTCT CTACTGGGT CCTAATCCCT  
382201 CAGACACACA GAGGAAGGAG GTGCAAGGC TGTGAAAGTG AAAAGAAAAG  
382251 CGAGGGGGCG GGTGAGCAGA GGCAACACAA TGTGAGCGCC TGGGGCCTCC  
382301 AGCGGCTGCA CCACAATCAT CGCCAGCTGC AGCCCAATTA AGCTCAACAG  
382351 GTCACAGGTG TTCCAGACAG AAGATGCTTT TAACAAAACC ACTTCTTGA  
382401 AAATACCTAA GACTTTTGA AGCACTGCAG CCCATTTCTT TTGGTAGATT  
382451 CTTTAAAGCT ATTTAGTACC CTTCAAATAC AAAGAAGCTG AGAAGCACAT  
382501 TTGGGCTCA GTGGAAGGCG TGCTTGTCTC ATGCAGAACA GCGGGGGCAG  
382551 CAGCCAGGCT GCCGTGACCG AGCGCAGAGA CAGCATCTCT GCCAATACGT  
382601 GGATTAGTG TGCACTGCA GAAAAAGGAC GTGAGGGGTG TCTCCCTCCT  
382651 CCAGCTTGGT CGCGTCTGAT ACTGTAGCCT GAACGTGCA GTTCACTCAC  
382701 TCACACAAGA AATTGCTGCA TAGCCATGAC CTTGTGTGTA CTCTTAAATT  
382751 ACAATCTCTA GGATGCAGTT GTAGTTTCC TATGAACCTT TAAGCAGCCC  
382801 TGCCACATGC TGGTTAAACT AGGTGAATGA ATTCAGCTAT CAGGAAGTAC  
382851 TTTTCATCTT CTGACACATT TTAAGTGCT GGCTTCATTT TCTCCACAGA  
382901 TCCAAGTGT CCCTGTGCCCT GCCAGAAGTG TGGGGAGGGG ATGACAGGAT  
382951 CCAAGCAGAA ATTAGGTAGT TGTTTAAAGT ACCTTCGGAC CTTTGTACC  
383001 CTTCCACCTT TCTTTGAGGA TATCGATAAT CTCTGAGAGG CAGTTAGGAA  
383051 TGTAGTGGG AAGGTCAAGT TAGAATTTG GCATCCCTAT TGGAAAGGAG  
383101 CGGTTCTTGG TTGCCCTACT CCTCAGGCGC ACTTACAGCA GCATCCCTTC  
383151 TTCCACGCG TGTGTGCCAC TCTCATGGGT ATGTTTGCCT GTTGTCAATTA  
383201 TTGTAACCTG TTTACAGCCA ATAGCGAGGA CATGCTGACG CTACCCAGGT  
383251 CTTATCTGGA AATGGAAGCA ACTGCTTAAA TTTACAATTG GGTTCCTAAT  
383301 CTGTCAAGCG ACCAGAAAAG CCCCTAGTAC TACTGTGAAA CTGAAAAGAA  
383351 CATGGGAAGA GTTAAAGCAC AGCGGGAATG AATACCCAGA ATAGGGCCCA  
383401 ACGTTTTTCAG CTTTCTCTC CTGTTGATTA GTTTTGGTA AACAGTCTTT  
383451 GCCTTGACTG TTAATTTTTA TCACGTCATT TTTTAAATT ATTACTGCTT  
383501 GCTTAGAAAC CATGTTGGTT TTAATTTTCA CAATACGCCCT GTTCTGTITT  
383551 TGCTAAGCTG AGCCACCTGT TTAACCTCTT CTTGTCTCAT GAATTGGGGG  
383601 AAAGAACCCT AGGCAATGTA TAAGAGGTTT CATTTTTTTC CACAGTGAAG  
383651 TAAGACATTG TTCTTATTCT TCATGGCATT CAGAATTCTG CACAATTGCC  
383701 TCTTTTGGCC TTTTGCAATT AAAAGTGAGG TAATTAGATT TCCCAAGGTT  
383751 CAATGGTCAA GAGCCTTCTC ATCCCGCGGA GTTGCTTCCC CACACTGCTC  
383801 ACAAGTGGAG CTGTCTGCG TAATCCAGTT ATTGCTATAT TGTGTGTTA  
383851 AAGGAACCTG TTTTTCAGAG AGCTAGCATA GCATGAAACT TTATACTCAC  
383901 ATGTCCCTTT GCTTTCATTG CTTTTTCCC CACATTTGAA ACTAATTACT  
383951 ATTTTATTCA GTGTCTGTGA GGATTTCTAA ACATTTTGT TAAAAATCTT  
384001 TTCCTACGTC CTAGGAATTC ATTTCAAATA TGCCATAATC CTTACATTG  
384051 TGAGATCCTG CCTTTGTGT TTTATGTTT TGTCAGATAT TCGATCGTCA  
384101 GATCTATTAT TACTGCTGAA CAAATGGAAA GAAAATTTGT GACATGTTGG  
384151 CACCAAATAA ATTAGTGTCA TAGCCACTGA AACAAAGGCA TGTCTTGTG  
384201 TAGCTCTGAC AGTGAGATCT TGGGCCCACT CTGCTATTTT TTTGTCTFAT  
384251 TTTCTCATTT TCACAAACAG ATAATGTTTT ACCTTTGCAA AAAGCTGTAT  
384301 ATATATATAT ATTCTAAAGC TTGGATATCA ATTTTTTTTT CTTTTTTTTT  
384351 TCTGAGATGG GGCTTCACTC TTGTTGCCCA AGCCAGAGTG CAATGTCAAG  
384401 ATCTTGGCTC ACTGCAACCT CTGCCTCCCG GGTTCAGTG ATTCTCCTGC  
384451 CTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGCACCAC CACACCCGGC  
384501 TAATTTTTTG TATTTTTAGT AGAAACGGGG TTTCAACCCT TTGGCCAGGC  
384551 TGGTCAGGTA TCCATTTTTT AGTCAAACT GAATAAGATG AAATACTCAG  
384601 ATTTATAGAG CTGGCCAAAA CGTTTTTGT TTTACAGCCT AATAGCAAAA  
384651 GCAATCTTGC TGGTAGTTGG CTAGTAATTC ATTTCTATGA TGTAGTCTGC  
384701 AGCCTATGGG GGAAGAGGAC AAGATGGTGA AGGGATTAGG GGAAAGCTTC  
384751 CAAAATCCTT TTTGCCAAAAG AAGTTAAGGA GCTTGAGCGA CCCAGGTTTT  
384801 CTCTCTAAAT GGGTTAGTTT AACATTCCAG ACAGTCTGTG ATTCAAACTT  
384851 GTCTATTAC CTATACATCT ACTCAGCAGA GTTCTTTATG GCCTCATAGG  
384901 AACAAATCAG CTGAATTTCC CATCACTGA AACTGTTCCA GACTTTATCT  
384951 ACTTTTGCTT TTTGTTTTT AGAGACAGAG TCTTGCAGTG TTGCCAGCG

FIGURE 3FFFFF



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385001 TGGCCTTGAA CTCCTGGGTT CAGATGATCC TCCCATCTCA GCCTCCTAAG  
385051 TAGCATGACT ACAGGCCCAC ACCACTACAC CCAGCTCCAT CTGCATTTTG  
385101 AATGTGATGC CAGCAGAGTG ATGAGCTTTG TGGTGGTCCC TGGGTTTCAGT  
385151 GTAGATACAC ACACACACAC AAACACACAA ACACACACAT ACTTATCTCA  
385201 TTAGGTTTTC CTATAAACTT TATAGCTAGT AATGAGAAAG GTCCTAGTTT  
385251 AAATTGAAGG GTTTTTTCCC TCAGTTTCTG TAGTATTCAT TCCTAAATAG  
385301 AGAGATATGT TGACAGATTT ATCTGAAAAG ACCTCATTTT TCCAAAGCTT  
385351 AACACAGAAA GGAAAATCCC GTAATCTTAG GTTAGTTTCA TCAAGTGAGA  
385401 CAATAAATCG CCATTTGTCAT AATTTTCTTT TTTTAGCAAA GATTCCATTTC  
385451 TAATTTCTCA AAATAATATA CAGTCATGCA CCACATAATA ACATTTTCAGT  
385501 CAACAATGCA CCAGATACAT AATGGTGGTC CCATAAGATT ACAATATTAT  
385551 ATTTTTGCTG TACCTTTTCT ATGTTTAGAT ACACAAATAC TTACATTGTG  
385601 TTACAGTTGC CTGCCTACAG TATTTCAGTAA CATGCTGTAC AGGTGTGTAG  
385651 TGTAGGAGCA ATAGAATAGA CCTATAGCC TAGTGTGGAA TGGGCTATTA  
385701 CCATCTAGAT TTGTGAAGG ACAGTCTGTG TACACAACAG TGAAAGCAAC  
385751 TAACATGCA CTTCTCAGAA CATATCCCCTG TTGTTGAGCA ACACATGACT  
385801 GTATGTTACT GCACTGTTTG TAAATTTTCT GAAGTTGTG TCCATTCCAG  
385851 TGCAGTTTTT TTCTATGACA ATACAACAAA GAAGCTCCTG TTCCTGTGGG  
385901 ATACATTTTG ATACCGAAGA AAGCATCTCT CAAAAATAAC AAAAGCATAG  
385951 CTGTATTCTT GCTAGAATTT CTAATTTATG TTAGAAATTA GTTCTACAGA  
386001 AAGAACTAAA TGCAGAGTAG TGCTCCAAAC TGAAACATA GCTTGAGATG  
386051 AACATACATC ACAGTATTAA ACAATTTTAG TTATTTACTT TCCTTCATT  
386101 CTAAGAATCT AAGAAGACCT GACAACATCT GGATCAGGGG TTCCCACCAC  
386151 CCCCAGGCCA TGCACGGTA CTGGTCCGTA GCATGTCAGG AACCAGGCCA  
386201 CACGGTAGGA GGTGAGCAGT GGGCAAGTGA GCATTACCAC CTGAGCTCCA  
386251 CCTCCTGTCA GATCAGCGGT GGCATTAGAT TCTCATAGGT GTGGGAACCC  
386301 TATTGTGAAC TGTGCTATGT AGGGATCCAG GTTGTGCGCT CCTTATGAGA  
386351 GTCTAATGCC TGATGATCTG AGATGGAACG GATTATCCTT GAAACCACCC  
386401 GCACTCCTCC GCCCCTGTG CATGGAAAGA TTGCTTCCA CGAAACCAGT  
386451 CCTGGTGCT AAAAAGGTTG GGGACTGCTT ATCTAGATCA TATGAAACAT  
386501 AAGTAACATA AAATACTATA GATTGGCCAA ATCTGGGAA GATGAACATA  
386551 GCATGCATCT TTTTGAAAAG GTAGTTGTAG TTAAGTAACT ATTCAGTTCA  
386601 GCAAACATAC CTTGACTATT TACATAGCCA GAGCACAAGT AAGTGCTTTG  
386651 GCTGCTACCA CTGTGCTGC CTTTGACCC ATTAACACA CTGGCCTCCC  
386701 TTCGCTCTCT CATGTCTCT CCCCATCTTC TCAGAAACAC AAGGAATATG  
386751 TCTATATGTC TATTCCTGT GTTCTGTGCC TCCACCCGCT TCCTTTTTCT  
386801 ATTTTGAAT GGGGAGAGCA AAAGTAAAAA GCTATGCTAA TAAGCAAGAG  
386851 CCATAATGTG CCTGATTGA GTTGTGTTGG ATCTCCCAA GTATGTGCCA  
386901 AAGATCAGCA TTAAACCAT TATAGATATT CTGCCAGAAA TAGGAGGGGA  
386951 AGAGTTCTAT GGGAAACAAC AAGTGTGTA GTCCATTCTG GCTGCTATAA  
387001 CCAATAAATCT TAGACTGGGC AATTTTTAAA TAATACAAAT TTATTGCTCA  
387051 CACTTCTGAA AACTGGGAAG TCCAGGATCA AGGTGCCAAC AGATTTGGTG  
387101 TCTGGTGAGG GCCTATTCT CATAGACATA CCTCTAGCT GTGCTCTCAC  
387151 ATGGTGGAAG GGGCCAACCA GCTCCATCAG GCTTCTTTTA TAGGGGTAAT  
387201 AATTCTGTCA GTGAGTACAG AACGCTCACA ACCTAATCAC CTCCCAAAGA  
387251 CCTCACTTCT TAATACTAGT AGCATTGGAG ATTAAGTTTC AACATATACA  
387301 TTTTGAGAGAA AAACATTCAG ACCATTGCAC TGGGTTAAAG AAAATCAAAC  
387351 TGACCATCAT TAGTAGCCTT TGTAAACCT TTAATAATCT ATTGTGCACC  
387401 ATGGGGAACA GAATATATAC AGGTGAGTA TCACTAATCT GAAATCCACA  
387451 GTGCTCCAAA ATTCAAAAT TTTGAGTACC AACATAACAC ACAAAAGGAAA  
387501 TGCTCATTTG AGCATTTTGG ATTTCAAAT TTCAGATTAC AAATGTTCAA  
387551 CCAGTAAGTA GAATGCAGAT ATTCCAAAAT CTGTAACATG TCTGGTCCCC  
387601 AGCATTTTCA ATAAGGAATA CTCAGCCTGT ATAGTGTGTC CCAAACTTA  
387651 TTTGACCATG GAATACTTCT CCTGAACACA CTGATTCTT AACGGAAATG  
387701 CTGGCGTGGA CCATGAGAAG AGCAGGAGAG CTGCACTTT CTGGGAGAT  
387751 ATTATATCAT ATCTTGAAC TCATACCACA GTAAGTGGCT CCCAGAGCAA  
387801 ATAGAAACCA GCCATCATGG ACATCCTAAG AATACATCTG TTTCCAAATC  
387851 TACCTTTTAA TTGCGGTAG GAGAAAAGAA CCAATAATCC AGTCAATGCT  
387901 TTTGCTTTTG GAATTTCTAC TAAGAAGCCT TTTTCATGAGG AAAAAATAAA  
387951 AACAAAAGGA ACTTTTAGGA GTGGCGCTCT GTCAGCTGCT TGTGCATCAG  
388001 CTGCTTGTGG ATTTGTGTTA GAGCTTTAGA GAGGACTGGC ATTGACTAGC  
388051 TTTCACTGTC ATTTGTGGCC ACATGACTTC GAAAACACTA TCATTGTGAA  
388101 TTTTAGTTAT ATTTGATGGT AGAATTATTC TTTTAAAAA ATTTCTCCAT  
388151 TCTGTCTACT GAGGCTAGTT CAATGTAATC CGTGTTTCT TTCTCCAC  
388201 CTTGCTGCTT CTCTACTCAT TTTATTCCT TCCCTTACCT GTATGCATGT  
388251 CTCAGTCTG TTTCTCACAC TTTGTTTCC AAAGCTGTAA CTTATTCCTT  
388301 CTCTCCACAC TAAAGCCCTT TCCATTTGCC TCCCTGAAAG TACTTCTAAT  
388351 ACCATGGTAC ACACGGCATT TACCTTACAT GCATCCACTA CTGGTTTGTG  
388401 AGCAGGGGAA GACAGGTGCT ATATCTTAGA CATGCCTGGA TCTTCCACCT  
388451 GGCTTAATAT AGTTATTGCA CAGAGTAGCT ATTCAGTGA GTTTGATTGA

FIGURE 3GGGGG

388501 CGAAAGAATG ACTGGCTAAT TATTTGTAGT GTCCTGGTTA CATTTCCTTC  
388551 AGTTACTGGC AGTATATTGC TAAGTAAATG TGATAGGAAA GTAAGAGTGG  
388601 CAGAAGAAGA TGACCTTATT GACTAGTTCT TCAGAGCATC CTTTATAAAT  
388651 AAAAAGAAAC AGAGTAATGT TTATTGAAGC AAGTGTGTA TTCAGGCAGT  
388701 GTTTCTCCCG CCTAGGACA TACAGACAGC TGCACTCCTT CCTCTACACA  
388751 GAAGAAGTCA CGTTCATATT GAGGTCTTGG AGTACCCATG TTTCTCTTTT  
388801 CATTAACTAC CAGAAGTTCT CTAGGTCAAT CCTATCTCAT CCAACCATT  
388851 GTGATCTGGT CAAAACCTCG TCCAAGTTTT CTATATCTCA AGTTTCGTAG  
388901 TTCTCCAAGC TAGATGGAAT TGTTTAAGAG ACAGGGGAGT ACTAAATATA  
388951 GTAGGGAAAT TTTTCCCAA GTCCTACTTT CTCTGACCAT AACTGATCAC  
389001 AAACATTCAC ATTTCAAGTG GTCCTACTTT CTCTGACCAT AACTGATCAC  
389051 TAAAGCCGCT TTGTTCATTAC CATGTAAGCC ACCACAAAAC AACAAATTTAT  
389101 AGCTCATAGA AAAATCTATA GAAGCAGGCT GGGCTCGGGG GCTCACACCT  
389151 GTAATCCAG GACTTTGAGA GGCCAAGGCG GCGGGATCAC AAGGTGAGGA  
389201 GATCGAGACC ATCTGGCTA ATATGGTGAA ACCCATCTCT TACTAAAAAT  
389251 ACAAAAAAT AGCCAGGCGT GGTGGCAGCG GCCCGTAGTC CCAGCTACTC  
389301 AGGAGGCTTA AGCAGAAGAA TCGCTTGAAC CCAGGAGGCG GAGGTGTCAG  
389351 GGAGCCGAGA TTACGCCACT GCACTCCAGC CTGGTGACAG AACGAGACTC  
389401 TGTCTCAAAA AAAAAAAAAA AAAAAAGAG AGAAAAATCTA TAGAAGCAAA  
389451 TGTGAAGGAA AGTAAGTGAT TCTGCAAAGA GGAATGCCCA GGGGAAGTGA  
389501 CCCTAAGGAC GCGCTTCTAG GCCCTAATGA TATAACATTT CCCACTACCT  
389551 ACATTTATTT ACTGTGCTGT ATTAGGCTCC CTGAGGTTC AGTGATTACA  
389601 GGAGTACAAC CATTCTTCT TCTGCCAGTT TGATTACTGT GTGTGAGAG  
389651 TGAAAGCCTG TCTGACAATT GGTTCCTTTC CTGGATGTG CCAGCGGGGC  
389701 AAACCGCCCA TCTGGCCATG TGAATCAAAA CCCAGAAACG TTGAGAGGTT  
389751 CCAGGCAGCC TTTTGGTTAC CTCTCTTTTT CTCAACCCCTG CTCTTTTTCC  
389801 AACCCCGGCC CTGGCCACCA TGGTACACAT GCTCATCTGG CCACTCTGTT  
389851 GGATGTGTTT CCATCAGACT TTACACATAC CCTATTAGC AAGATCACTG  
389901 CACTGTGCAA AAACAGGGAG ATATCAGTCA TATAGCAAAT GAAATAGTAC  
389951 AGTAATTAAT ATTTGTCAC TCACATAGTA GGTGCTCAAT AAATGTTCCC  
390001 AACCATATG TGCCAGGCTC TCTATTCTCT GAGGGAGTCT CAGCTATGAG  
390051 GGGTGGGGGA GGTATGCAGG AGAGAGAAAG AGAGCTCCGT CACCTGGCAG  
390101 GAAATGTAGT GCTCTTTGCC TCTTCCAGTG ATCTTTCAGA CTCTCTAGCC  
390151 TTGCAACCAT TGCTTCAAAT TCTTGTCCAG ATGAAAGAAG TGCTGCTCAG  
390201 AAGGGTGTGG GTGGGACTC TTCCCACTTG GTCCTTTCAC CTCCCTTTGT  
390251 AGAGATCTCC AAGGTCCCCT TAGAACACAG TGGAAACATT GGATAGCCAG  
390301 TTTACCATGC TGGTCATTTC ACAGGTTTTT ACTGTGCTTA TTAATTATCA  
390351 CATCTTTGTT TTCAAAAGAG CTCTTTTTTG ACCAGAACAT GTGATAAAGT  
390401 GGTTTTACTA ATCCCTTGAA GTTTTGTGTT TTCCCTTCAAC AAGATGATAG  
390451 CCACCCCTCT TTTTCAGAAA AACATTAAAC TGCATAACCA CTACAGTTAA  
390501 CTTCCGGGCT CATTAATGAA GCCCAGAACT AATAGTTACA TTGTCGTAAT  
390551 TTGACAAGC CATCTAAATC TATGCATGTT TTTGAAAGCT CCCTAAACAT  
390601 GCTGCTAAAT CCCTAAAAA GCTACTAAAC TGCTTTGGCA GCCATTAGCC  
390651 CAGCTAAAGC AGAGGAATC TTTTCAGTGA GTGAACAAAC AGAGAAAATA  
390701 CGCTGAATGG ATGGACAAAT GTGTTTCAGC TGGCCCTTTC ATTTACCAAT  
390751 ATAAGGGGCG AGTCAATATC AATCACTGTT TTCCCTGTTG CCCTGAAAAT  
390801 CACAATATCT CTTTTCATCC CACAAGCTCT TTTCACTACC GTAATGTGTC  
390851 TTTAGAATGA CACTGGCATC AGCCTGCTTC CGCTGTCTGA AGTCCAGAGA  
390901 GCTTAAAAAC ACATTTCCGGG ATTCTTGAAC CTTCCTCCCC TTCCGTTTTT  
390951 CTACTGCCTC CTCCCTCCTC CCTCTGCATC CATTCCGCCC CCTCCCAGA  
391001 TTCTTTTCAA TTCTTCCAGC TTTCTTGGCT GAGTAAACAG CATTCACTTC  
391051 TCTGTTCTAA TGCAGCTCTC CAAAGTAAAT GTTGACAACC CTATCTGATA  
391101 TTCTTGAGAT TTAAGAATC ATTAAAGAGA TACACATAAA GAAATGCTTT  
391151 TACATGTTGG TAATACATCA AAGGTTGAAA GGAATGTGGA AACTCTGTGC  
391201 TATGACACGG TGTGTTGATG AGCAAGGCTC CACTCTGTAT CAGAATATCT  
391251 CCCCCTCTGC CCTCCCTTGA CCGTTGGCTC CCGCTCCCT CCACCACATA  
391301 GAGACATGCA TCCTTTGGCA TCCCTTGTTA AAAGTATGTG CGTGACACAG  
391351 TACCTACCCCT TACAGTTAAG AGCAAATGCC CTTAAAAGCA AATGCCACTT  
391401 CTTAGATATC TTTTGGCACT CCTGGTTCTG AGTACTTAAT AGGTGCTTT  
391451 GGGATGAAGG AAAGAACAGA ATGCTCTGTA TATGATTACC TTTTATCCTT  
391501 TTGAAAACCT GAGTGGACTA ATTCTTGACG ATAAATTTTA GCAATGGGCA  
391551 TTTAGTTGTA GAAGGTACCA CAGATGAATA TTTGGAATAT TATGTTTCTA  
391601 AAAGAGTACT GATTGTTTTT TACCTCCTTT TATTTACTTA TTTTTTAAAA  
391651 TTTGAGATTG TAGTGTCTG CAGAGAGGCA GCTCTTCTGG CTCTGGAAGA  
391701 AGACATTCAA GCCAATCTCA TCATGAAAAG ACATTTCACT CAGGCCTTGA  
391751 GCACTGTGAC ACCTAGAATT CCTGAGTCAT TGAGAGGTTT TTATGAAGAT  
391801 TATCAAGAGA AGAGTGGGCT GCATACACTC TGAGAAAATA TATATATTCA  
391851 AGATGCTGAA AATCCTTTCC AGAGAAAATT TGTCTCTTTT TAAAAATTTT  
391901 TGAGAGTGTT AAAAAAATT TTAAGTGGCA AAATGTTTGA AGTATGTTCA  
391951 GTAGAATTTA GGGGCTTTGG TTCTTACAGA TTTTCAAGTC ATGTAAGTAC

FIGURE 3HHHHH

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392001 AGTGAATAA TCTCTGAGCA TAAGTTTCAA TCAGTTTAC CTGGAAATTT
392051 GTGGTGTGGT TTAAAAACA AATGTTTAGC TTTTTCATTT GCGACCTAGT
392101 CTGTTTCATCC CATGAAGCGA TTTCTTTTTC CAGAATCTGT TTGAGTGTCT
392151 TTCTAAAAATG CCAAACATGT TGGCATCAAT TTTATACAGG GATATAAAAA
392201 AGTATATGTG GATAAATTTT TTGTAATCTT TAGGGATATA AAAAAGTGTA
392251 TGTGGATAAA TTTTGTGTAA TCTTTATTTT TGAAGGCCAG CCAGTAAAT
392301 GGCCCAATGT GCCAGCCAGG CTTATGTGGC CTTGTTTCA AATATACATA
392351 TATGTGTTAT CATTAAATTT CATATATGCA TTTTGTTTT AGCCTTCTTA
392401 ATCTCTACCT ATGGCCAAAA AAATTTTTTT TGAGAGATAT TTTGTATAAT
392451 ACAATGCCCT TTGAAAGTGT AAGCCCACTC TAAGCCTAGA TCAGTAGGCT
392501 TGGGTTTTTT TTGTTGTGT TTTGTCTTTT TTTTTTTTTT TTGAGACAGA
392551 GTCTCACTCT GTCACCTAAG CTGGAGTGCA GTGGCAGAT CTTGGCTCAC
392601 TGCAACCTCC GCCTCCTGAG TTCAAGCAAT TCTCTGCCT CAACCTCCTG
392651 AGTAGCTGGG ACTACAGGTG TGCAACCA CAACGAGCTA ATTTTATAT
392701 TTTTAGTAGA GACAAGGTTT CACCATGTTA GCCAGGCCG TCTCGAAGTG
392751 CTGGCCTCAG GACCCACC CACCTGAGCC TCCCAAAGTG CTGGGATTAC
392801 AGGCGTGAGC CACCATACCT GGAGAGGTTT TGTGTTTTTG TTTTTTTTC
392851 ATAAAAATGCT TTTAATAAAT CATATGAAGC ATTCAATGTT TFACTTATAC
392901 ATATTTTTCG GGTACCAAGT AACTTTTTAG TTCAAAGATA GGCCAAATTG
392951 TACTTTTTTT TTTTATGAGA CAGAGTCTCG CTGCTCTGTC GCCCAGGCTA
393001 GAGTGCAAGT GCGTGATCTA GGCTCACTGC AAGCTCTGCC TCCTGGGTTT
393051 ACTTACGCCA TTCTCCCGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGT
393101 GCCCACCACC ATGCCCTGGCT AATTTTTTTT TTTTTTTTTT TTTATTAGAG
393151 ACAGGGTTTC ACCGTGTTAG CCAGGATGAT CTCGATCTCC TGACCTCGTG
393201 ATCCGCCCGC CTCGGCCTCC CAAAGTGCTG GGATTACAGG CATGAGCTAC
393251 TGCGCCCTGC CGCCAAATTG TAATCTTAAA CATATTATGT TGCATTCTAA
393301 ATATGTATAT TTATGCTTCT TGTATTATAT CCTCAGGATT TCTTCACACT
393351 TTATTACTTC ATAAATACTC TTGAAAAAGC TTTCAGAAAG TGATTCTCTG
393401 ACTTCAGATC AGAAACTGGC AATGGGAAGA ATGTGCACTT AAACCTGATC
393451 ACTGTAGATC TTTGAAAAAT CCCAGAAAGA CAAATCAGAC AAGAAATACC
393501 TGATTATCAA AATAATGGGC TATACAGTTT TGTGGTGGCA TACATTCCTT
393551 GTTTGTTTGT TTAGAGATAG GATCTTGTGT TGTCAACCCAG GGTGGAATGC
393601 AGTGGCACAG TCGTAGCTCA CTGCACTTTC AAACCTCTGG AGCTCAAGTG
393651 ATCCTCTCTG ACTCAGCTCC TGAGTAGCTA GGACAACAGG TGCACACTGC
393701 CATGTCAGGC TAATTTTTTT TTTTAAACAG AGAGACAGAG TCTTGCTGTG
393751 TTGCCCAGGC TGGTCTCCAA CTCCTGGCCT CAGGTGACCC TCCTGCCTCA
393801 GCTTCCCAAA GGGCTGAGAT TACAGGTGTG AGCCACCATG CCCAGCCTGT
393851 GGTGACATAT ATTCTGAAGT CACATCTCAA ATATTTAATC CTCAAATATA
393901 TTTACATCCT CAAAATATC AGATTTTCAA GACAACACTG GTTTACCAGT
393951 ACATAAACCC ACCTAGGGGA CAAAGAATAT TACCACTTAG AACTGTGTTG
394001 TCAAATACAA TAACCACTAA TTGTATCTGA CCATTTTAAT TAAATTAATT
394051 ACAATTAAT AATATTTAAG AATTAGTTTA TCAGACATAT CAGCCACATT
394101 TCAAATGCTC AATAGCTACA TGTGGCAAGG GTCTGCCACA CTGGACAGAG
394151 TAGAAACAT TCCCATCATT CAGAAGGTTT TCTTGACGC T (SEQ ID NO:3)

```

## FEATURES:

Genewise results:

```

Start: 2052
Exon: 2052-2214
Exon: 6544-6665
Exon: 7947-8104
Exon: 12324-12382
Exon: 12982-13623
Exon: 14599-14728
Exon: 14985-15041
Exon: 17011-17134
Exon: 26115-26370
Exon: 58099-58253
Exon: 105907-106116
Exon: 134208-134261
Exon: 135030-135109
Exon: 168302-168428
Exon: 333800-333964
Exon: 391657-391830
Stop: 391831

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Sim4 results:

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Exon: 2052-2214, (Transcript Position: 1-163)
Exon: 6544-6665, (Transcript Position: 164-285)
Exon: 7947-8104, (Transcript Position: 286-443)

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FIGURE 3IIII

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Exon: 12324-12382, (Transcript Position: 444-502)  
 Exon: 12982-13623, (Transcript Position: 503-1144)  
 Exon: 14599-14728, (Transcript Position: 1145-1274)  
 Exon: 14985-15041, (Transcript Position: 1275-1331)  
 Exon: 17011-17134, (Transcript Position: 1332-1455)  
 Exon: 26115-26370, (Transcript Position: 1456-1711)  
 Exon: 58099-58253, (Transcript Position: 1712-1866)  
 Exon: 105907-106116, (Transcript Position: 1867-2076)  
 Exon: 134208-134261, (Transcript Position: 2077-2130)  
 Exon: 135030-135109, (Transcript Position: 2131-2210)  
 Exon: 168302-168428, (Transcript Position: 2211-2337)  
 Exon: 333800-333964, (Transcript Position: 2338-2502)  
 Exon: 391657-391833, (Transcript Position: 2503-2679)

CHROMOSOME MAP POSITION:  
 chromosome 4

## ALLELIC VARIANTS (SNPs):

DNA Position	Major	Minor	Domain	Protein Position	Major	Minor
2769	G	C	Intron			
3193	A	G	Intron			
3212	A	G	Intron			
8756	A	- G	Intron			
9504	T	G	Intron			
9848	C	G	Intron			
9854	T	-	Intron			
9855	T	G	Intron			
9856	T	C	Intron			
9858	A	G	Intron			
9859	A	C	Intron			
9861	A	G	Intron			
9933	A	C	Intron			
29225	T	-	Intron			
30318	-	C A	Intron			
31773	A	G	Intron			
31815	G	A	Intron			
31937	T	C	Intron			
37476	C	A	Intron			
37907	G	C	Intron			
39942	G	A	Intron			
39962	T	C	Intron			
54112	G	A	Intron			
56564	T	C	Intron			
56577	C	G	Intron			
62685	G	A	Intron			
66226	G	T	Intron			
69242	T	C	Intron			
71663	T	C	Intron			
72277	A	G	Intron			
73914	A	G	Intron			
84040	C	G	Intron			
89030	G	A	Intron			
93320	A	T	Intron			
101668	G	T	Intron			
103856	-	G T	Intron			
105833	T	C	Intron			
105955	G	C	Exon, coding	639	E	Q
107551	G	T	Intron			
119296	T	C	Intron			
119555	T	A	Intron			
121866	-	T	Intron			
122895	G	A	Intron			
131609	G	T	Intron			
131723	C	T	Intron			
132231	T	-	Intron			
135632	-	A	Intron			
141539	G	A	Intron			

FIGURE 3JJJJJ

**10/506549**

142214	C	A	Intron
145778	A	G	Intron
151190	A	T	Intron
157553	A	C	Intron
157636	A	T	Intron
162146	A	G	Intron
163621	A	G	Intron
164329	C	A	Intron
164414	T	-	Intron
164418	A	-	Intron
165385	C	T	Intron
169409	A	G	Intron
169427	T	C	Intron
169482	A	G	Intron
169833	A	G	Intron
172752	A	C	Intron
174593	T	C	Intron
175255	C	G	Intron
182043	G	A	Intron
191691	C	T	Intron
191860	C	T	Intron
205285	C	T	Intron
205541	G	A	Intron
214654	A	T G	Intron
217543	A	G	Intron
220982	G	A	Intron
223142	-	G	Intron
224714	G	C	Intron
224830	C	G	Intron
226572	-	T	Intron
231688	G	A	Intron
231789	T	C	Intron
233397	-	A	Intron
233523	G	A	Intron
234058	A	G	Intron
234588	T	G	Intron
239457	A	G	Intron
239491	A	G	Intron
239555	C	A	Intron
242177	C	G T A	Intron
247768	T	A C G	Intron
249117	A	G	Intron
249605	G	A	Intron
250289	C	T	Intron
251073	C	T	Intron
252314	-	A	Intron
253696	A	G	Intron
253831	A	G	Intron
253888	G	A	Intron
253894	G	A	Intron
255016	G	A	Intron
256221	T	C	Intron
256464	T	C	Intron
263085	G	A	Intron
265178	G	A	Intron
265800	T	G	Intron
269688	C	T	Intron
272937	A	C	Intron
273176	T	C	Intron
275790	T	C	Intron
276058	-	A G	Intron
276824	C	G	Intron
280661	C	T	Intron
280667	A	C	Intron
281343	A	G T	Intron
283572	-	T	Intron
288144	C	T	Intron
288353	A	G	Intron
288504	T	C	Intron
288604	T	C	Intron

**FIGURE 3KKKKK**

289150	C	T	Intron
291331	G	C	Intron
291575	G	C	Intron
291589	G	T	Intron
294398	G	A	Intron
298090	C	T	Intron
299714	G	A	Intron
306438	A	G	Intron
306579	T	C	Intron
310153	T	C	Intron
310189	A	G	Intron
310283	A	G	Intron
311696	G	T	Intron
315318	A	C	Intron
315383	T	G	Intron
322289	C	T	Intron
323572	T	C	Intron
324052	T	A	Intron
326324	G	T	Intron
327037	T	G	Intron
327038	T	G	Intron
327295	A	G	Intron
328248	T	C	Intron
328332	C	T	Intron
328453	G	T	Intron
328464	G	C	Intron
328968	C	T	Intron
329579	A	G	Intron
331838	A	G	Intron
332042	A	G	Intron
332058	A	C	Intron
333419	A	G	Intron
336143	T	G	Intron
336148	T	G	Intron
337934	C	T	Intron
341242	T	C	Intron
341261	C	T	Intron
346129	C	A	Intron
350106	G	A	Intron
351103	A	G	Intron
351139	T	G	Intron
358126	G	A	Intron
361818	T	C	Intron
362286	C	G	Intron
362869	T	C	Intron
363642	G	A	Intron
363730	A	T	Intron
365893	G	A	Intron
366622	-	C	Intron
370992	G	C	Intron
371475	G	A	Intron
373927	A	T	Intron
374062	G	A	Intron
374489	C	G	Intron
375527	A	- T	Intron
375885	G	A	Intron
376687	C	A	Intron
378952	A	G	Intron
379000	G	A	Intron
384480	G	A	Intron
385802	G	A T	Intron
386270	T	C	Intron
386338	G	A	Intron
387449	C	G	Intron
389096	T	C	Intron
389998	T	C	Intron
392964	-	T	Intron
393018	C	T	Intron

Context:

FIGURE 3LLLLL



10/506549

DNA  
Position  
2769

- AGTTGCACTTGAAACGCTTTGTCTCATTTAACATTAACGACACATTTAATTGCAAAATTG  
TTCATAACTAGCGAACATGGGATACTTATCCTAAAAAACTAAATAACCAATTTCAGTAAAA  
ATGTGGATCACTCTGCCTTTAGGAGTGATGATAGCATTTTCTTCCAGTACTACGCAGGTT  
ATGATATTTAATAACTGCTAGTAAGTGCACACTAGTGTAGCAGTATATATAGCTCATCT  
AATTTCTACAGAAGCGGTGACCGATGGGTATAGTAATGACAGTTTATAGAGGGAGGAAA  
[G,C]  
TTAACGTGATTCCATTTCAGGCTACACAGGTGCTAAGTGGCAGAGCCGATATTTGAGTCCA  
GATGTGTTTGACTTAAAGCCATTCCCTAGATGACAGCTCCTTTGATTTGGGAGAACGGTAT  
TTATACTGAAAAGTCTTATAAATTGAATTAAAAATTGAAAATTTATATTTGATGTGTAAT  
AGCTTTGAAAAATGGACCAGACTAGTGGCAAAAACCTTTATGTCTAATCAGACCTTAAAG  
ACAATTTAGAGTTACATGGTATTTTCACTCTGCCTTAGGTATCAGAGGACAACCTTGTTTC
- 3193 TACTGAAAAGTCTTATAAATTGAATTAAAAATTGAAAATTTATATTTGATGTGTAATAGC  
TTTGA AAAATGGACCAGACTAGTGGCAAAAACCTTTATGTCTAATCAGACCTTAAAGACA  
ATTTAGAGTTACATGGTATTTTCACTCTGCCTTAGGTATCAGAGGACAACCTTGTTCTGT  
CCTGAAGGTTCAACTTGTTTTGAAGTAGATCCTTCCCATTGACATGTAACATGCTCAT  
TTCTCTTCCATCTTAAATCAGAACAAAAGCTCCACATTTCTTCTGCAACCGTCTCTCT  
[A,G]  
TCCATTGCCAAGCTTCTTAAATGGAGTGGTCTCTGCCGCCCTCACCATTACATACTCTCC  
CTAGCCTATTCCTCTTTGACTTCCACCCCATCATTCATGGAAAAGTGTCTCTGGTGTGGT  
CTCCGAGCATCTCGTGTGATAAACCTTACGTGACCACAGCAACTTTGGTATTGTTGA  
CCATTCCTCTCTCGAAACACTTAACTTCTTATGTGTGTGCAAACTTGCCTGGTTTTTC  
TTCATCTTTGTTGATGTTTCATCATTTTCTTTGCAGGCTCGTCTCTTCCCTTGACCAT
- 3212 TTGAATTAAAAATTGAAAATTTATATTTGATGTGTAATAGCTTTGAAAATGGACCAGAC  
TAGTGGCAAAAACCTTTATGTCTAATCAGACCTTAAAGACAATTTAGAGTTACATGGTA  
TTTTCACTCTGCCTTAGGTATCAGAGGACAACCTTGTTCTGTCTGAAGGTTCAACTGTT  
TTTGAAGTAGATCCTTCCCATTGACATGTAACATGCTCATTTCTCTCCATCTTAAATC  
AGAACAAAAGCTCCACATTTTCTTCCCTGCAACCGTCTCTCTATCCATTGCCAAGCTTCTT  
[A,G]  
AATGGAGTGGTCTCTGCCGCCCTCACCATTACATACTCTCCCTAGCCTATTCTCTTTGA  
CTTCCACCCCATCATTCATGGAAAAGTGTCTCTGGTGTGGTCTCCGAGCATCTCCGTGTT  
GATAAACCTTACGTGACCACAGCAACTTTGGTATTGTTGACCATTCCTCTCTCTCGAA  
ACACTTAACTTCTTATGTGTGTGCAAACTTGCCTGGTTTTCTTCACTCTTGTGATGTTT  
CATCATTTTCTTTGCAGGCTCGTCTCTTCCCTTGACCATTAAATGTTGAAGTTCGTCA
- 8756 AATTTCTGGGCATGGTGGTGTGTACCTGTAGTCCCAACTATTTGGGAGGCTGAGACAGGA  
GGATTGCTTGAGCCTGGGAGGTGGAGATTGCAGTGAGCTGGGATCGCGCCACTGCACTCC  
AGCCTGGGTGACAGAGTGAGACTGTGTCTCAAAGAAAAAAAAAAGTTACCAATAAGATAT  
TTTGATCCCTTTTTCAGCTAAGTCTTCAAATCAATGTGTATGTTACACTTGTAGCA  
CATCACAGTTTGGACTAGCCCCATTTTAAACATTTGATAGCTACATGTGCTGAGTGGCTA  
[A, -, G]  
TGGCCACTTGTGTTATATTAGACAACCCAAGCTAAATGAGTGTCTATATAATTTATAGACT  
AAGGACTTTGATTTTCCATGATTAGAGTGTGCCCTGACATTTTAGGTGAGAGTAATTTTC  
ATTGATCCATTTAGCAGTGTTTTTCACCTTGACTTGCAGTGTAATCAGGGCTTCTTAT  
TTTACAGTTGTAAGAAAAGAGTAGATTACTGTGAGTCAAACAGAAACAAGTTTAAATTA  
AGACTATGCAAGCAAAGAACCCTGATTGTATATTTAAGTGTGATTATTTCGATTAGTA
- 9504 CAAGTCTTCTCAAAAATCATTTACAAAAAGCATCTTTTATACTTTAATGTACCTTAGT  
AATAGTTTGGGGGATGTGTTTACATTATATGTGAGAATTACAAACCATTTTCTAGTCATC  
AGCTTGATTTTAAATATGTTCTCTTTTGCTACTATTGTAGATTTTAGACTTGAGTTTGGC  
ATATTTTTCCTTTATAACAGGAGAATGTTTTCAGAGCTTATAGTAACAGTTTAAATGAAC  
AATAAAAAGCAGAAGGGACAGGAGACAATATGTTGAGTACCGGCTGTATACAGAAGCTTT  
[T,G]  
TATATATTGCATGTATGTATACACACACACATTTACCTTTTCTTTTAAACAGATGA  
AATAGTCTGAGGAGAACTTGCCCTAATATTTTATGAGGTAGTTAATAGTACTGTTGAGATT  
AACTGGATTATTCCTCAGACTATGTCTTAAATGGTGTACAGGTAGCAGTAATTCGTT  
GACTGGAATTAGCATTTATGATGACCTACAACTAGTCAGACCTCTTGAGCGCACAGCAG  
TCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTTAAATGAAAGCTCA
- 9848 TCTTTTAAACAGATGAAATAGTCTGAGGAGAACTTGCCCTAATATTTTATGAGGTAGTTA  
ATAGTACTGTTGAGATTAACTGGATTATTCCTCAGACTATGTCTTAAATGGTGTACA  
GGTAGCAGTAATTCGTTGACTGGAATTAGCATTTATGATGACCTACAACTAGTCAGACC  
TCTTGAGCGCACAGCAGTCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATG  
TTTTAAATGAAAGCTCAGGTTTTAAATTTTGTTTTAAAAAATCTTATGTTTTAAAAAT  
[C,G]  
TTATGTTTTAAAAATCTTAAAGTATAGACAAGAAAGTTAACTTCAGTTGGGAAAATCAGT

FIGURE 3MMMMM

10/506549

- CATTTTAGTCTGCTTAAATCCTTCAGTTGCAACTGTAAGATTTTATTATTAATAGTAATG  
TTAGAGCTCCTTCTAGTGGAATTTATTTATGTGCAACTATTATTTTTTAAAGCAAAA  
TTGGTTTGATATTTTACTGTTTTACATGTATTTGTAATACCTTCTATTTCAGAGTTTA  
ACAAAAGCAATTTAAGTATAACTTGGTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCA
- 9854 TAAACAGATGAAATAGTCTGAGGAGAACTTGCCTAATATTTTATGAGGTAGTTAATAGTA  
CTGTTGAGATTAACTGGATTATTCCTCAGACTATGTCTTAAATGGTGCTACAGGTAGC  
AGTAATTCGTTGACTGGAATTAGCATTATGATGACCTACAACTAGTCAGACCTCTTGA  
GCGCACAGCAGTCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTTAA  
ATGAAAGCTCAGGTTTTAAATTTTGTTTTAAAAAATCTTATGTTTTAAAAAATCTTATG  
[T,-]  
TTAAAAAATCTTAAGTATAGACAAGAAAGTTAACTTCCAGTTGGGAAAAATCAGTCATTTT  
AGTCTGCTTAAATCCTTCAGTTGCAACTGTAAGATTTTATTATTAATAGTAATGTTAGAG  
CTCCTTCTAGTGGAATTTATTTATGTGCAACTATTATTTTTTAAAGCAAAATTTGGTT  
TGATATTTTACTGTTTTTACATGTATTTGTAATACCTTCTATTTCAGAGTTTAAACAAA  
GCAATTTAAGTATAACTTGGTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCATTTAAG
- 9855 AAACAGATGAAATAGTCTGAGGAGAACTTGCCTAATATTTTATGAGGTAGTTAATAGTAC  
TGTTGAGATTAACTGGATTATTCCTCAGACTATGTCTTAAATGGTGCTACAGGTAGCA  
GTAATTCGTTGACTGGAATTAGCATTATGATGACCTACAACTAGTCAGACCTCTTGAG  
CGCACAGCAGTCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTTAA  
TGAAAGCTCAGGTTTTAAATTTTGTTTTAAAAAATCTTATGTTTTAAAAAATCTTATGT  
[T,G]  
TAAAAAATCTTAAGTATAGACAAGAAAGTTAACTTCCAGTTGGGAAAAATCAGTCATTTTA  
GTCTGCTTAAATCCTTCAGTTGCAACTGTAAGATTTTATTATTAATAGTAATGTTAGAGC  
TCCTTCTAGTGGAATTTATTTATGTGCAACTATTATTTTTTAAAGCAAAATTTGGTTT  
GATATTTTACTGTTTTTACATGTATTTGTAATACCTTCTATTTCAGAGTTTAAACAAAAG  
CAATTTAAGTATAACTTGGTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCATTTAAGG
- 9856 AACAGATGAAATAGTCTGAGGAGAACTTGCCTAATATTTTATGAGGTAGTTAATAGTACT  
GTTGAGATTAACTGGATTATTCCTCAGACTATGTCTTAAATGGTGCTACAGGTAGCAG  
TAATTCGTTGACTGGAATTAGCATTATGATGACCTACAACTAGTCAGACCTCTTGAGC  
GCACAGCAGTCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTTAAAT  
GAAAGCTCAGGTTTTAAATTTTGTTTTAAAAAATCTTATGTTTTAAAAAATCTTATGT  
[T,C]  
AAAAAATCTTAAGTATAGACAAGAAAGTTAACTTCCAGTTGGGAAAAATCAGTCATTTTAG  
TCTGCTTAAATCCTTCAGTTGCAACTGTAAGATTTTATTATTAATAGTAATGTTAGAGCT  
CCTTCTAGTGGAATTTATTTATGTGCAACTATTATTTTTTAAAGCAAAATTTGGTTTG  
ATATTTTACTGTTTTTACATGTATTTGTAATACCTTCTATTTCAGAGTTTAAACAAAAGC  
AATTTAAGTATAACTTGGTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCATTTAAGGA
- 9858 CAGATGAAATAGTCTGAGGAGAACTTGCCTAATATTTTATGAGGTAGTTAATAGTACTGT  
TGAGATTAACTGGATTATTCCTCAGACTATGTCTTAAATGGTGCTACAGGTAGCAGTA  
ATTTCGTTGACTGGAATTAGCATTATGATGACCTACAACTAGTCAGACCTCTTGAGCGC  
ACAGCAGTCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTTAAATGA  
AAGCTCAGGTTTTAAATTTTGTTTTAAAAAATCTTATGTTTTAAAAAATCTTATGTTTA  
[A,G]  
AAAAATCTTAAGTATAGACAAGAAAGTTAACTTCCAGTTGGGAAAAATCAGTCATTTTAGTC  
TGCTTAAATCCTTCAGTTGCAACTGTAAGATTTTATTATTAATAGTAATGTTAGAGCTCC  
TTCTAGTGGAATTTATTTATGTGCAACTATTATTTTTTAAAGCAAAATTTGGTTTGAT  
ATTTTACTGTTTTTACATGTATTTGTAATACCTTCTATTTCAGAGTTTAAACAAAAGCAA  
TTAAGTATAACTTGGTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCATTTAAGGAGA
- 9859 AGATGAAATAGTCTGAGGAGAACTTGCCTAATATTTTATGAGGTAGTTAATAGTACTGTT  
GAGATTAACTGGATTATTCCTCAGACTATGTCTTAAATGGTGCTACAGGTAGCAGTAA  
TTTCGTTGACTGGAATTAGCATTATGATGACCTACAACTAGTCAGACCTCTTGAGCGCA  
CAGCAGTCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTTAAATGAA  
AGCTCAGGTTTTAAATTTTGTTTTAAAAAATCTTATGTTTTAAAAAATCTTATGTTTAA  
[A,C]  
AAATCTTAAGTATAGACAAGAAAGTTAACTTCCAGTTGGGAAAAATCAGTCATTTTAGTCT  
GCTTAAATCCTTCAGTTGCAACTGTAAGATTTTATTATTAATAGTAATGTTAGAGCTCCT  
TCTAGTGGAATTTATTTATGTGCAACTATTATTTTTTAAAGCAAAATTTGGTTTGATA  
TTTTTACTGTTTTTACATGTATTTGTAATACCTTCTATTTCAGAGTTTAAACAAAAGCAAT  
TTAAGTATAACTTGGTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCATTTAAGGAGAT
- 9861 ATGAAATAGTCTGAGGAGAACTTGCCTAATATTTTATGAGGTAGTTAATAGTACTGTTGA  
GATTAACTGGATTATTCCTCAGACTATGTCTTAAATGGTGCTACAGGTAGCAGTAAT  
CGTTGACTGGAATTAGCATTATGATGACCTACAACTAGTCAGACCTCTTGAGCGCACA  
GCAGTCTTAGGTGAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTTAAATGAAAG  
CTCAGGTTTTAAATTTTGTTTTAAAAAATCTTATGTTTTAAAAAATCTTATGTTTAAAA

FIGURE 3NNNNN

- [A,G]  
ATCTTAAGTATAGACAAGAAAGTTAACTTCCAGTTGGGAAAATCAGTCATTTTAGTCTGC  
TTAAATCCTTCAGTTGCAACTGTAAGATTTATTATTAATAGTAATGTTAGAGCTCCTTC  
TAGTGGAATTTATTTATGTGCAACTATTATTTTAAAAAGCAAAATTGGTTTGATATT  
TTTACTGTTTTACATGTATTGTAAATACCTTCTATTTCAGAGTTTAAACAAAAGCAATTT  
AAGTATAACTTGGTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCATTTAAGGAGATAC
- 9933 TTATTCCTCAGACTATGTCTTAAATGGTGCTACAGGTAGCAGTAATTCGTTGACTGGAA  
TTAGCATTTATGATGACCTACAACTAGTCAGACCTCTTGAGCGCACAGCAGTCTTAGGT  
GAGTAATGATTGCTTATTAGAGAGGACTGGATATGTTTAAATGAAAGCTCAGGTTTTAA  
AATTTTGTTTTAAAAAATCTTATGTTTTAAAAAATCTTATGTTTAAAAAATCTTAAGTAT  
AGACAAGAAAGTTAACTTCCAGTTGGGAAAATCAGTCATTTTAGTCTGCTTAAATCCTTC  
[A,C]  
GTTGCAACTGTAAGATTTTATTATTAATAGTAATGTTAGAGCTCCTTCTAGTGGAATTA  
TTTTATGTGCAACTATTATTTTAAAAAGCAAAATTGGTTTGATATTTTACTGTTTT  
ACATGTATTTGTAAATACCTTCTATTTCAGAGTTTAAACAAAAGCAATTTAAGTATAACTTG  
GTTTAGAGTTCCATAAAACAAAAGTAAATGTAAGCATTTAAGGAGATACATGCAATTTTCT  
CATTAGTTTATACATATATTGATTTCATGAAATTTCCCTCATTGTATTCTCTCTTGT
- 29225 GCTGTCCCTTACCTGTCTACCTGTATCCTGATGGTGTATCACATCCTTGTGTAGAAG  
AGTATACATGATGGGGTGTGAGAATGTGCATATTTATTCAGTTTGTGCACGGCTGCTGG  
TAAGCAGCGTGTCCACAGAGCCAACCTCTATAGGAGTTGTTTCAACAGTCCATTCAATTT  
GTTTCAGTCAGCCCCACTGCTGTAGGGTTGTACCGCAGGTGAAAATGCCAGTGGATATCCA  
GGGCTCTGCTTATTCTTGTACTTTATATCTGGTAAAGTACGAGCCCTAGTCATTGTTAA  
[T,-]  
TTTTTTTTTTTTTGTAGATGGAGTTTCGCTCTTGTGCCCAGACTGGAGCGCAATGGGG  
CGATCTCGGCTCACTGCAACCTCCGCCCTCTGAGTTCAAGCAATTTCTCTGCTCAGCCT  
CCTGAGTAGCTGGGATTACAGGTGTGTACCACCACACCTGGCTAATTTTTGTATTTTA  
GTAGAGACAGTTTCACTATGTTGGGCAGGCTGGTCTCAAACCTCTGACCTCAGGTGATC  
CACCCGCTCAGCCTCCCAAAGTGGTGGGATTACAGGCGTGAGCCACTGTGTCTGGCCCA
- 30318 GATGCAATGGGGAATGTCTTCTACATGTTCAGGGCACCAAGGAGGTGACCTGCTACTGT  
CTAGTCCTGTGCTTCCCATTGTAGTAGCCACATGGTGAGTCCCTTTACATTGGATTAGGT  
AAAAGTAATCTAGAGATTATTTAAATTATATGGGAGGATGTACATAGGCTACATGCAAAAT  
ACTGTGCCATTTTATATAAGAGGCTTGAGCTGTCTTAGATTTTGGTATCTTAGGGGTCC  
TGGAACCGATACCCCATAGATACTAAGGGATGACTGTATCCTATCAGACTTTTCCAAAGT  
[-,C,A]  
CATGTAATCAGATGCATT  
GTTGGCAGTATTGATGAAGACAATTTTATTGATATATCGTGCTGTGGAATCAGGGAGA  
AATGTGTACTGGAGAATCACAATTTTCTTAAGGAATGTATGCCGGATGCCTGTTAACT  
TCAGACAGCCCACTGTGAGTACACAGGACTGCTGGGTCTGGCTTATAGAGGAGGACCAT  
CCTGGCAGCTTGCAGCTCAGCTCATTGGCTGCTATGTCTTGGCCTGTATCATCAATCCA
- 31773 TTGTCTGTGTTTATAGCTCATCCTGTTTGCAGATGAGGCAGCAAGGTGTGAGGGCGCAG  
TTTGAAAGCTGGAAAAAGACTCAGAAGTTAGCACGATATCATCACTGTAATGGAAAATGT  
GTACCCCTTCCAGGACCTCCATGGCTATATAAATATCCCTGGGGCAAGATGGTAAAAGTC  
TATTGTTCTTCCAGGTGAATGCAAAATGGTCTTGACTCTCTGCGGCAATGGGGATGCTG  
AAGAAGGCATTGGTTAAATCAATAACAGAGTGGTAGTGGTATGTGTCCAGTGCCTCTCCC  
[A,G]  
CCCTCTTTAGAAGGGAGGTGATATTGGGAACATGTGCATACGTTGGGGGACTGCCTTAC  
TTAATTCCCAGTAATCTAGTGTCAATTGTCCATGTCCATCAGGCTTCCACATGGGCCGTA  
CATGGCTGTGTATGGGCTGTGCACCTGGCTTGTAAATGCCCTCCTTGGGCTAACTCCTTAA  
CAATCCCTGTGGTTTCAATTATGTCCCCCAGCAGGAGTATTGCCTCAGTGCTACTACTT  
GCTGTGTGGGGTGGCAACTATACTGGTGTCCATTTCCGATTTCCCTTGGTCACATGCTT
- 31815 CAAGGTGTGAGGGCGCAGTTTGAAGCTGGAAAAAGACTCAGAAGTTAGCACGATATCAT  
CACTGTAATGGAAAATGTGTACCCCTTCCAGGACCTCCATGGCTATATAAATATCCCTGG  
GGCAAGATGGTAAAAGTCTATTGTTCTTCCAGGTGAATGCAAAATGGTCTTGACTCTCT  
GCGGCAATGGGGATGCTGAAGAAGGCATTGGTTAAATCAATAACAGAGTGGTAGTGGTAT  
GTGTCCAGTGCTCTCCACCCCTCTTTAGAAGGGAGGTGATATTGGGAACATGTGCATAC  
[G,A]  
TTGGGGGACTGCCTTACTTAATTCCCAGTAATCTAGTGTCAATTGTCCATGTCCATCAG  
GCTTCCACATGGGCCGTACATGGCTGTGTATGGGCTGTGCACTGGCTTGTAAATGCCCTC  
CTTGGGCTAACTCCTTAACAATCCCTGTGGTTTCATTATGTCCCCCAGCAGGAGTATT  
GCCTCAGTGCTACTACTTGTGTGTGGGGTGGCAACTATACTGGTGTCCATTTCCGATT  
CCCTTGGTCACATGCTTACCACCTCTCAGTCAGAACTCCCCAGCAGTTGTTTGGAGGGT
- 31937 CAAGATGGTAAAAGTCTATTGTTCTTCCAGGTGAATGCAAAATGGTCTTGACTCTCTGC  
GGCAATGGGGATGCTGAAGAAGGCATTGGTTAAATCAATAACAGAGTGGTAGTGGTATGT  
GTCCAGTGCCTCTCCACCCCTCTTTAGAAGGGAGGTGATATTGGGAACATGTGCATACGT

FIGURE 300000

10/506549

- TGGGGGGACTGCCTTACTTAATTCOCAGTAATCTAGTGTCTTGTCCATGTCCCATCAGG  
CTTCCACATGGGCCGTACATGGCTGTGTATGGGCTGTGCACTGGCCTTGTAAATGCCTCC  
[T,C]  
TGGGCTAACTCCTTAACAATCCCTGTGGTTTCATTATGTCCCCCAGCAGGCAGTATTGC  
CTCAGTGTCTACTTGTGTGTGGGGTTGGCAACTATACTGGTGTCCATTTCCGATTCC  
CCTTGGTCACATGCTTCAACCACTCTCAGTCAGAACTCCCAGCAGTTGTTTGGAGGGTCA  
AGCCTGATAAGATATCCATTCTCAAGATGTATTCCAAGATGGGAGCTATACATACTAAAT  
AGGGTTTTGGTGGCAGTCTCTCAACTTGTAACTCAGACAGTTCAACCTTTCTGATCCC
- 37476 TTTTCAGGAGGTGTTTTTTCATTGTTTACCAGTTGTGCTATGTTTAAATGGAGTGCTTGTA  
ATGGCCACTGGCATATATGGGTAGTTAAGGCATCTTGACCAGATTCGTGAGTTTGACACT  
AAGAGACTCCATCTCCAGATGATTTCTGGGTATGTAGGTTAAATCTATCTTTCTATT  
ATTTATTTCTTCCCCACGGAATTCAGGTTTGTTCACATGTTTTTAAATTCAGGACCAATCA  
CTTAGAGCAAAGAGTCTTAAACATTATTATATGAGAATCACTGTAGAATTTACTAAAT  
[C,A]  
GGTTACTGAATCCCCCTGACAAGAGTTTCTGATTCACTAGGTCTGAGCTGGTGCCTGAGA  
ATGCTAACAAAGTTCCAGGTGATGCTAATGCTGGTCTAATGCGGCTGATCTGGAGACCA  
CACTTTGAGAGCTATTGACCTATAGGGCATTAGTTCTTAAACCTCATTATGCATCAGGCT  
CACCTGGGAACTACACATTCACTCATGCTCACAGTCACATTTCCCACTCATAATTAAGTG  
TTTAAAGGAGTTAGGAAGCTGGAGGCAGGATCTATAATGTTTTTCCAAGTGATTTTGAAGC
- 37907 GCTATTGACCTATAGGGCATTAGTTCCTAAACCTCATTATGCATCAGGCTCACCTGGGAA  
ACTACACATTCACTCATGCTCACAGTCACATTTCCCACTCATAATTAAGTGTTTAAAGGGAG  
TTAGGAAGCTGGAGGCAGGATCTATAATGTTTTTCCAAGTGATTTTGAAGCAGCCAGTCTT  
GCCCTTGTCTGTGATTGGACATTTGATTGCTGATTTAGGCAAGTGTTTCTCCAACCTAT  
GTAAGAAGCATTTGTAGAGCTGCTGAAAACACAGTTCTGGGGTCTATCCTGCTGATTCT  
[G,C]  
TAGGTCCAGAAGGTCCAAGTGGGGCCCCAGATTTGCATTTCTAACAAAGCTTGCAAGTATG  
TCATTGCTGCTGGTCCAAGAACTGTACTTTGAGAATCACTGATCTAGGGCAACCAACTAC  
CCAGTTTTTGGAGATTCTCTAACTGATTTAAATAAAGTGGATTAAATTTAGGGATTGAAAT  
TCTTTGACCGTCTCTAATAGTGTGTGTGGTCTTCTCCAGAAAGTTTTTGTGATAGTAA  
TGTGCTCTTCCAAACTATCATTTAACTTTGCCACTCAAGAGAAAATGAATGTCTTAAGTT
- 39942 TTTTATAGCTCATTTGTCCCTCCACCCCCAACTAGCTTACTTTAACAGGGATTTATGGAGC  
ATCTGCTATGTATGTAATAGTCCAACCTCTTATGAAAGGTTCTGTTTCTAATATTTTTTAC  
TATTTTTTCAATCTGTCAACGTTGTTTTCTAAGTTAGAATTAATAATTTGATAGTGTAG  
AAATTTGATATTTTAAATTAAGTCCAGGAAATAATGGGACTTATTGCAAAGCTTATGG  
TGAGCTCTACATTCAAGTGCTATCATTATACTTTATCAGCTGATAAACATTGAGCAAGCT  
[G,A]  
TTCAACCTCTTGGGTTTTATATCCTCACCAGCTAAGTAGGGATAACACTATATGGTTTTA  
AGAGTTCTTATCAGGTTTTAGTAATATAGCCTGGCAGCAGTGGTGATGGTTTTATATAGGCC  
CTTGATAAGTGTCACTTAATTTCTCCTTTCTTCTTTAGCCTCTGGAAAATTGATATTTA  
AACATTTTTCTAAAAATTGATTTTACGTATATTTATGCATTTCTCTGGTAGAAGCTTGT  
TGGATTTTGGCAATTTTCTGATATGAAGTGTTCTTGATTATCTAGTATAAAGATAGG
- 39962 CCACCCCCAACTAGCTTACTTTAACAGGGATTTATGGAGCATCTGCTATGTATGTAATAG  
TCCAACCTCTTATGAAAGGTTCTGTTTCTAATATTTTTTACTATTTTTTCAATTTCTGTCAA  
CGTTGTTTTCTAAGTTAGAATTAATAATTTGATAGTGTAGAAATTTGATATTTTAAATA  
AAGTCCAGGGAAATAATGGGACTTATTGCAAAGCTTATGGTGAGCTCTACATTCAAGTGC  
TATCATTATACTTTATCAGCTGATAAACATTGAGCAAGCTGTTCAACCTCTTGGGTTTTA  
[T,C]  
ATCCTCACCAGCTAAGTAGGGATAACACTATATGGTTTTTAAAGAGTTCTTATGAGGTTTATG  
TAATATAGCCTGGCAGCAGTGGTGATGGTTTTATATAGGCCCTTGATAAGTGTCACCTAAT  
TTCTCCTTTTCTTCTTTAGCCTCTGGAAAATTGATATTTAAACATTTTCTAAAAATTGTA  
TTTTACGTATATTTATGCATTTCTCTGGTAGAAGCTGTTTGGATTTTGGCAATTTTCT  
GATATGAAGTGTTCTTGATTATCCTAGTATAAAGATAGGAAATCTGGCAGAAATCCTTT
- 54112 GTTGAAGTCTTAAGTTGAATCCTAAGTCAGGGACTGTCTTTATCACTGAATATTTTTT  
AATGCTTCTGCTCCATTTAACTAATGAGGATGTGAGTAGTAAATCGACCCCAATTTATCA  
TGGTCTTAGTCCAGTTTCTGCTGCTATAACAAAATACCACATACTTGGTAATTTACAAAG  
AACAGAAATTTATTTCTCAGAGTTCTGGAGGCTGGAAAGTCCAAGATCAAGGTGCTGGCA  
GGTTTGGGCTCAGTCTCTTGCATCCAAGATGGTGCCTTGAATGCCATATTCTCTAAAGG  
[G,A]  
GAGGAACGTTGTGTCTCCTACATAGCAGAAGGGTAAGAAAAAGGGCAAGCCTTTCTTATAG  
CTGTATTAATCCATTCAATGAGGCTGGAGACACCTCTCATTAGGCCTCACCTCCCATCAGT  
GTGCTATTAGCGATTAAGTTTTAACATGAGTTTTTGGAGGAGACAAAAACATTCAACCAT  
AGCAAAACATAAACATGTCAAGAAATTTGAAAGGGTCTGAGATTTTACTCTACTTTTACTCT  
ATTCTAACAAATTTTGTGAGTGGCTGCAGAAGAGTCAAAGGAAAGAATATTGCAGCAACA
- 56564 GTGCAGGCACAGGCACCGGCTCTGTGTGAGGATGTGGCTGGACCAGGCATACCACAAGTG

FIGURE 3PPPPP

- TTTTCCACCGTGGGCCACAGGTAACGTGGTGGTACCTGGAAGCTTGGAGATGTTGGAAAC  
AGCAGAGCCCCAAAGAGAGTGTACAGCTCTGGTATCACAGCTCTGATCACAGCCCTTGC  
ATCTGGGCTCCCCAGAGGGCCACAGCTCTCTCTCTCATTCGCCAAAATGTGGTGACC  
AGTGGCGTGTTCAGTCCGTGTTGTGTACAGCTCTTCAGTCTGCCATTTGGAAGGT  
[T,C]  
CTGAGTCTTGTGCCAGCCTTTAGGAAGAATGAGGTATGTGGACAGCTGGAGGGTGAGCAA  
GGCAGAGAGGAGCTTCATTGAGCAAGAGAACAGCTCTCAGGAGACCTGAAGTGGGTAGGT  
CCTTCTGCCATCAGGTGCTCTGATGAGCGTCCAGCTCTCAGCAGAGAGGATACCTGGAG  
GGGGTAGCTGCTGTCCACAGGCAGGCCATCTCAGAAATGTCTAGCTTTCCGCAGAGAGG  
ACACCTGGAGTGGGTAGCTCCTTTCTGCAGGTAGGTATCCTGATGAGTGTCTGCTGTCT
- 56577 CACCGGCTCTGTGTGAGGATGTGGCTGGACCAGGCATACCAAGTGTTCACCGTGG  
GCACCAGGTAACGTGGTGGTACCTGGAAGCTTGGAGATGTTGGAAACAGCAGAGCCCCAA  
AGAGAGTGTACAGCTCTGGTATCACAGCTCTGATCACAGCCCTTGCATCTGGGCTCCCC  
AGAGGGCCACAGCTCTCTCTCTCATTCGCCAAAATGTGGTGACCAGTGGGCGTGTTC  
CAGTCCGTGTTGTGTACAGCTCTTCAGTCTGCCATTTGGAAGGTCTGAGTCTGTG  
[C,G]  
CAGCCTTTAGGAAGAATGAGGTATGTGGACAGCTGGAGGGTGAGCAAGGCAGAGAGGAGC  
TTCATTGAGCAAGAGAACAGCTCTCAGGAGACCTGAAGTGGGTAGGTCTTCTGCCATCA  
GGTCTGCTGATCAGCGTCCAGCTCTCAGCAGAGAGGATACCTGGAGGGGTAGCTGCTG  
TCCACAGGCAGGCCATCTCAGAAATGTCTAGCTTTCCGCAGAGAGGACACCTGGAGTGG  
GTAGCTCCTTTCTGCAGGTAGGTATCCTGATGAGTGTCTGCTGTCTGAGTGGAGAGAGA
- 62685 TGTCTTAAGACTTTTTTTATTTTTCTTTTGATTTTCATCTTTGACCCATTGATTGTTTCAG  
GAGTATGTTGTTTAATTTCCAGATATTTGTGGATTTTCCAATTTTTTTTCTGTTATTC  
TTTTCTGGTTTGTATGATTATGGACAGAAAAGATACGTGATATGATTTTAGTCTTCTTAA  
ACTTTTTAGACTTGTTTTGTGGTCTAAGATATGATCTATCCTTCAGAAATGTGTCTGTGC  
ACTTGAAAAGAATATGATTTGAGAGCCCCATAGATGGTTACATCACAGGACTCTGTAC  
[G,A]  
GACAACCCCCAGTACCAACCCAGAGCTGGGTAGACTTGCTGGGTGGCTAGACCTAGAAGA  
CAGACAACAATCACTGCAGTTAGGCTCACAGGAAGACACATCCATAGGAAAAGTGGGGAG  
AGTACTACATCAACGGAATATCCCATGGGACAAAGGGATTGGAACAACAACCTTCAGCCC  
TAGACCTTCTTCTGACAGAGCCTACCCAATGAGAAAGAGCCAGAAAACCAACCTGGTTAA  
CATGCCAAAACAAGGCTCTTCAACACCCCTCAAAAATCACACTAGGGATGTGTTCCATT
- 66226 TTATCATTATATGATGACCTTGCTTTTTTTGACAGTTTTTGACTTAGTCTATTTTGCT  
AATATAAGTATAGCCACCCCTGCTCTATTTTGATTGCTATTTGCATGAAAATTGCTATGA  
AATAGCATGATTGCTATTTATGCAAAATAGCAATCAAAAATAGAGCTGAAGACTCTATTTTG  
AAAGTCTTCAGACTCTTTAAGAACACATATAGAATACTTTCACTTCAGCTTTAACAATGC  
ATATAGAATACTTTAAATTAAATCTTTAAATTAGAGTCTCTATGGGTAGCATAATTTT  
[G,T]  
AATCTTGTTGTTTAAATCCATTGAGCACTCTGTCTTTTGACTGGAGAATTTAATGTTCCA  
TTTGAAGTAATTTATGATAGGTAAGGGCTTACTAGAGCTATTTTATTGTTTCTGTTTG  
TAGTACCTTTGTTCTTCTCTCTCTCTGCTGTCTTCTTGTGATGTGATTTTTTTTT  
TTTAGTGATATCTTTGATTCTTTCTCTTTATCCTTTGTGTATCTATTACATGATTTT  
CTTTGTGATTACTCTGAGGCTTACATAAAACACCTTCTAGTTGAAACAGTCTATTTAAG
- 69242 TGGGCATCCCAAATTGCCGGGATTACAGATGTGAGCTACTGTGCCTGGCCTGTTTCCTTA  
TTTTTGTTCTCCACCCAGGTAATCTCTCACTTGGATTCTTAGCTGTTGTGAAGG  
TATTTTCAAGTGTGGGCAATTTGTTCAAGCTGATATTTCTGTGAGGAAAGAGCAGTAGAAA  
ACTCCTATTCTGCCACCTTCCATCATCAGTTTCATCACAGTTGTAATCTTTCTTGCAAA  
AACTCTACCATTAGAATTATTTGAAAACCTTAGAGCCTTGTAGAGAGTCTGGCCTAGTTG  
[T,C]  
ATCCTTTACCTCACTGTGTATAGGCGTTTCAGTATCCATAGTTCTCTTGGTCATTAACTA  
ATGTTTTTAAATTTGTAGCTAAAAATAAAACAAAAACAAAAAGGAAACTAAATGA  
TATTAGATAAATGAAGTAGACAATGTGGAATGATAAGGATTTGTTTTCAATTTTTTTTTT  
TTAAAGAGGCGAGGAGCTCTCTCTGTCTTCCAGGCTGGAGTGCAATGGTGCAGTCTAGCT  
CACTTCACTGTAGCGTCAAATTTCTCTGCTCAAACGATCCTCTGACTCAGCCTTCTGAG
- 71663 ATAGAAAACCTGTTTCAAATGGCTAGTTAATTATCAACATTTAAAAAATAGTATAGTGGG  
CATTTAGCATGTTTTCAGAAAAGATTTTAGTGATAAAGTTAAAAATTTCAAATCACACT  
TGCCTAGTTATATTTAAGTTTGAAGAAAGGTGCTAGGATGGAAATATTGCCAGTGAAAA  
TATAAATGTTAATACATTACTAATTTTAGGAGACCACAAGTGTAGCCACTTACTTAAAT  
GTAATGTTTCTTCTTTTGGAGCTCTGGAATGGTGATTACAGTGACATTAAGGTCAAATG  
[T,C]  
GTTTTCTTTACAGCATGAATCCTTACAATCTAGGAATATGCTAATATTCAATTGTGAAATT  
CCAATTTTCTTATCCAGAGATAACAGCTGTTAACATTTTGTATAGTTCTGTAAAGATT  
GTAT  
TAGAGATGGAGTCTCACTCTGTGCCTATGCTGGAGTGCAGCAGCACGATCTCAGCTTAC  
TGCAGCCTTCACTACCAAGGTTCAAGTGATTCTCTGCTCAGCCTCCCAAGTAGCTTAG

FIGURE 3QQQQQ

10/506549

- 72277 GCCACCATGCCTGGCTGATTTTGTGCTTTTTTTTTTAGTAGAGATGAGGTTTTACCAT  
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTACTCTCTTCAGTCTCCTGG  
AGTACTGGGATTACGGGTGTGAACCAACAGCGCCTAGCGCTCTTGTATATTTAATGTAG  
TTAATCTTAAGATATATGTAGTTTATATTCTGCTTTTTCACTTAAATATGTAGTAA  
ACATTTTACATTAGAATTTGTGGCAAACTTTTTAAATGACTACACCAAGACTTTTAT  
[A,G]  
TGGATAAACTGTAATTGGTTGATCCTTCTTAGTCTCAAATTTTAGGCTTTTGTCTATT  
TTTCCATACCATTTGTATAAAGATATTTGTGTGTAATCTTTGCATTTATGATTTTTAGA  
AATAAAGTATAAGACTAAATGTATTATTTTAAAGCTTGTGACAAATATCAAGCTTTT  
GTTTTACAGAAAGGTTATTCTAATTTATGATATATGACAAAATTTAAATTTATAACAACC  
TTAAGCAGGAACCTAATTTTCACTTTGGTTATTTCTTTTACTTTTCACTAGAGTTTAT
- 73914 AACTCCGATCCAGGTTAACTTAGAGGTCGTTGGCTATCAAATTGAGTGTATACCACATA  
TCATTAGTTAAATAAACATTTATTTACTCCCATTTTAAATGTAGCAGTTTCTTAATTA  
TATGAATAATCAACTGTCTCTTTCACTAATTATATATTTAAATTTACTACTATATTTTC  
ACCTGGCACCCTTTTCAGATGAGCCTAGAACATCAGAAATGTGACAGTCAGTTGAGTTTCAT  
AGGATGAGCTCATTAGCAGTACATTTCTGGTGCAAGGTTTGAAGTAGTTTAAATG  
[A,G]  
CTATAATTATATTTCACTTCTCATATCCCTTAGGATAATTAGAAGAAATTCATTTTAGT  
TTTTATTCTTTAAATACAGTACTGCATTTTATATTTTATTTTTTACAGGCTCAAAGATT  
GAGGGTTTCTATGATGCTTTATTAATAAAAGATTGCTTTTTTTTGAATAAATAGTATAA  
CCTGTGGAATGCTATTAAATCCCATATTGGTTCTTGGCAGGGCTTTAAATTTGGTTTCT  
TTTGATTGTCTTGTGTCTAGACAGAAAAGTGCTTCTATCACTCCCAAGATCCAG
- 84040 TAGGCTGTTCTCAAATTCCTGGCCTCAAGTGATCTGCCACCTCAGCCTTTCAAAGTGCT  
GGAATTACAGGTTGTGAGCCACTGCGCCAGCCTTGTTTTATTGGTTTTCTGTTTTCTATT  
TTATTTATTTCTACTCTAATCTTTGTATTTCTTTCTTCTGTTTGCTTTATGCTAAAT  
TCTTCTCTTCCCTAGTTTCTTAAGGTGGGATGTGTGGTTACTGATTTTAGATCTTTCT  
TCTTTCTAATCTAGGCATTCAAAGCCATAAACATTCATTAAGCACTGCTTTAGCGGCAT  
[C,G]  
ACACATATTTGATATAGTGTATTTTCATTTCCATTTAGTTCAGCATATTTAGAATTTCC  
CTTGGTACATCTTTAAATATCACAGTCTACCTTTAAGTGTTATTATACCATGTGTACAG  
TATAAGAACCTTAGAACAATATATTTCTATTGTTCCCTCCTGGCCTTTGTGCTATTGTT  
GTCATATGTTTACTTTGCATATATTGTAACTTCAAACATACTGTCATCAGTTTTCGA  
CTAAACAGAGTATTTCTTTGAAGAGTTTAAATATTAAGGAAAAGTGATTTTATATGT
- 89030 GCTCCACAATGTAGAGACCGTGTCAGTTTATTCAATTTTGTATTCTTAGAGCCAGGCCA  
AGCATTCAAAACAGCCATGCAGTAATATGAATATATCTGAATCAATGAGTGAATACATAA  
ATAATTGAGAAAATGAATGGATATTAGATATTAACCTTTACCAACTCTACTTATAGCA  
GCCTGACTCTAGTTAACCATAAATACACACTTGTAAACGATGGGCCCCACACTTACCCTA  
AGTTATAAAAATGGTACAATTAGGTAATTTCTACCTAAGACAGTCAGTTTGTCTCAGC  
[G,A]  
ATCTAACCAAGTAGGCTTGCTTACTTCTGAGACTTGCTTGACCTATCTCATTGAACCTGC  
TCTGTGCTGAGATACATGTCCAATTTCTCAAGGCAAGTTCTTCTTCCAGAATTGTCTTG  
TGACATACTTTGAGCCAATTCCTAGTTGGTTCTGTACCAGTAAACTCATACCCCCAGCT  
ATTACATGTAGCATTCAACATTCAGGACAACTTTGATGTAAAGTTAACTTTTTTTT  
TCTTTTCTAAATATTGCCATTAAGACTGTGTTTAAAGATTGTTTTCTAATACTTCTT
- 93320 ATTATATGTTTAGTGAGGTTCTCAATGTTATTTACTAAAGAGCAACAAATCCCAACAAAT  
CAAGAGCAATTAGTGGCCAGTTTGGTGTATAGTTTCTTATATTTCTTCTAATCTAGTT  
TTTTAGCTTTCTGTACTCCCATCTGTGAATTTGTAGATGTTTTCAACCTAAGCTTGCTT  
ATGGAATAATGGAATAAAACAGAAAGAGGGGAAAGGCTGGGAGAAAAGAGAAGCAAAGAC  
CTCTTTGAATACTCAGCCCTTCCCACTACCCCTGTGCATAGCACTTCACATTTTACTTG  
[A,T]  
CTGCACAATCTGTCTGCTTTTCATTGGTTTTTCAGAGTCTCGAGTGATTTTTGTATTTTG  
TCTGACATTTTTCTTTCTTTTTTTTTTTTTTAAATGATCATTCTTGGGTGTTTCTCA  
CAGAGGGGGATTTGGCAGGGTCATAGGACAATAGTGGAGGGAGGGTCAGCAGATAAACAA  
GTGAACAAAGGTTCTTGGTTTTCTATGCAGAGGACCTGCGGCTTCCGCAGTGTTGT  
GTCCCTGGGTACTTGAGATTAGGGAGTGGTGATGACTCTTAACGAGCATGCTGCCTTCAA
- 101668 TTCAGTCTTGCTCAGAGTTGTCCAATCTTCTGGCTTCTTGTCCACATTGGAAGAATTA  
TGGTCTCGGGCCACACATAAAATATACTAACACGGGCTCCGAGCAAGATGGCAGCCTCCG  
AGCCGGTTAGGCTACAGCTTCAATATGATTACCCACTGCCAGCTACCCCTGCACTGTACGG  
CCTTCTGGCTTCTGGTTGACTTGAACAGGGCGCGAGTTGTACAGATCTCATTAGTCTC  
ATCCGCGCAGCGATTTGGCTTCGGTTCTGGGGGCCCTCCGAGGCTTACCTGGAGCAGGG  
[G,T]  
TTCCCTGCCCCCACCGAGAGCGCATGCCTGATGAGAGACAATGACTGCCTCAGAGTTAAA  
TTAGAAGAGAGAGGAGTTGCTGAGAAATCTGTAGTCATCAGTAATGGTGACAGTACTCAT  
TTATCACTTAGAAAAGCAATGAAGTGGGCATTTAAGTTAGAGGAGGATGAAGAACTAAC

FIGURE 3RRRRR



- CCAGATTACAACCTATTCAAGAAGCATTGGAAGAAGCAAGAGTACAATAACAATAATGAG  
AAGGCTCTGGATCTAGAACGAAAAGCGGTACAGATCAGACTATAAGCAAAAAAAAAA
- 103856 ATGTGCTGCATATCTTGTCTCATTAAAGTTTAAAGTAACATTTAAACTATTAAAGCATGT  
TACTTGACCTAATTTATAGCATTGAGTTGTCCATTAAATGGAGCATCTCGTAAATTT  
CAAGTATTTTATACTTGGCAATGGTTAAGAGTTAAAAGGTAGTTGGATTGTGCACAGACA  
ATGAGTTAAGGAATCCTTTACGTTTTCCTCAACTTTAAATTAAGGATTCTCAGGGCCC  
TGTGTAGAGCAGTAAAAATAAGACCTCGTGTATGTGTATGTGTGTGTGTGTGTGTGTG  
[-, G, T]  
ATGTGTGTCTGTCTGTCTGTCTGGAGGAGAATTGATTGGTGTTCACCTTGGGTGAGAGGG  
TTGGCTGTGAGCCTCAGACCAGGAAATGTGTCTCTTGCCAAGCACCTGGCTGAGTGTGC  
TGGAGTGAGGATTTGAACAGAACTTCTTTTCTGTATTATTCACTACAAAGCTTAAGT  
GGCCAAATATATACTGTGAAAATTGGTTTCTTTTAAACAAAAGATCAGATCCCTCCTTCAG  
CTGTACACATTTTAAATAAAATCATATAGAACTAAAAAAAATACTAACACGAAACGATA
- 105833 GTATAAGAAATTAGATATATAGATGAGACCTTGGATGACTTGACTCAAACCACTTTTACA  
CAGATGAAACGTAACCTCTAAATCTTTCTAGAAGGTAGATTTTACGATATGCTCAATCA  
TTTAAACAGTTATTTATATGAGACTTACAAGCAGAATTTTTTTTTTTTAGTATTTTTTA  
CAATATGCAGTTCATTTTATGTACTCCTAATTTACTTCTGTATTCTTGGAAATTTTT  
TAAAGGATTTTCTGATTCTTAAATGGTCTATTCTTTTTTGCAGTCTTCTGTAAATGA  
[T, C]  
ATGTTTTTATTTTTTTTAGTTCCTCTGTGTGTCTGGCAAACTTATATTTGGAATG  
TTCTATTTTTTCAAGTATCTCTGGTCAGATATAGGAGGACTGGAAGTATCAAAGTGAAGTT  
GGAACAGGCTGTGGAATGGCCCTTAAACATCCAGAGTCTTTCATTGGAATGGGTATTCA  
GCCACCTAAAGGAGTTCTTCTCTATGGGCCACCTGGGTGCTCTAAACCAATGATAGCAA  
GGCTTTGGCCAATGAGAGTGAGTGAATTTCTAGCTATAAAGGTAGGATGTTAAATTTT
- 105955 TAAACAGTTATTTATATGAGACTTACAAGCAGAATTTTTTTTTTTTAGTATTTTTACA  
ATATGCAGTTCACATTTTATGTACTCCTAATTTACTTCTGTATTCTTGGAAATTTTTTA  
AAGGATTTTCTGATTCTTAAATGGTCTATTCTTTTTTGCAGTCTTCTGTAAATGATA  
TGTTTTTTATTTTTTTTAGTTCCTGTGTGTCTGGCAAACTTATATTTGGAATGTT  
TCTATTTTTTCAAGTATCTCTGGTCAGATATAGGAGGACTGGAAGTATCAAAGTGAAGTTG  
[G, C]  
AACAGGCTGTGGAATGGCCCTTAAACATCCAGAGTCTTTCATTGGAATGGGTATTGAGC  
CACCTAAAGGAGTCTTCTCTATGGGCCACCTGGGTGCTCTAAACCAATGATAGCAAAGG  
CTTTGGCCAATGAGAGTGAGTGAATTTTCTAGCTATAAAGGTAGGATGTTAAATTTTTT  
AATCGTACTCTCTCTGGCTCCCCAACCCCATTTCTCTGACTCCTACCTTTAGGAGA  
ACGAATAAAGGCATCTTAAAGGAGCAGTATTCTTTTTTTTTTATTGATGTTGATGGCAA
- 107551 CATATTTTTTATTTTCTGGAAGATATTGGAGAGTAAAGATGGGGGAGGAGACCATTTACA  
GCATGATCACTTATGGGAATCACAACCTACAGTTTTTAAAGGTTTCAAGTTTATTGTAT  
TTTTTTGAGACATGGTCTCACTCTGTGGCTAGGCTGAAGTATAGTGGTGTGATTATAGC  
TCACTGTAACCTCAAATCTGGGCTCAAGCTATTCTTCTGCTCAGCCTCCTGAGCAGC  
TAGGACTACAGGTGTGAGCCATCACACCAGCTAACTTTTAAATTTTGTAGAGACAGG  
[G, T]  
TCTCACTGTGTTGCCCAGGCTGGTCTCAAACCTCTGGCTCAAGCAGCCCTCCACCTTA  
CCCTCCCAAAGTCTGGGATTATAGGAGTGAGCTGCTGCAACACAGCAAAGTTGCGGTT  
TTAAGGGTTGAAGTAATGAGTGAATTTGTCACTTCCAGGACAACCTGATTTCTCCTTGG  
TCCTTGCTCTTTATCATGTGGTAATGGGGATGGCTGTGTACTGGCATTTTCTAGTCT  
TTTTACTCTCATCTCCATTTTTCTGTCTTACCTGTATATTCTACAATTGTATATTCA
- 119296 CCGCCACCACGCCAGCTAATTTTTTTTTTTTTTTTTTTTGTATTTTATGATAGAGAGC  
GGGTTTACCGGTGTAGCCAGGATAGTCTCGATCTCCTGACCTCATGATCCACCCACCTC  
GGCCTCCCAAAGTCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCTATGATTATTCT  
TTTCATGTATCTGTCTCCTAATTAGCCTCAAATATTGATTTTTAGACTATGTATAATCTA  
TTACTGTAAACAGTTTTTGGGGTTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGA  
[T, C]  
GGAGTTTGGCTCTGTGTGTCTAGGCTGGAGTGAATGGCGTGATCTCGGCTCACAGCAAC  
TGCTGCCCTCCAGGTTCAAGCGATTCTCCTGCCCTGAGTCTCCCAAGCTTGGATTACAGGC  
ATGTGCTACTACTCCAGCTAATTTGTATTTTATGATAGATGTGGTTTCTCCATGTTG  
GTCAAGCTGGTCTTGAACCTTGAACCTTGAAGTGAATGGGCTGAGTCTGAGCTTCCCAAGT  
CTGGGATTACAGGCGTGATCCACTGCATCTGGCTGAAACAGTTTTTCAAAAAGATTAAAT
- 119555 TGGGGTTTTTTG  
TCTAGGCTGGAGTGAATGGCGTGATCTGGGCTCACAGCAACTGCTGCCCTCCAGGTTCA  
AGCGATTTCTGCTGCTGAGTCTCCCAAGCTTGGATTACAGGCAATGTGCTACTACTCCAG  
CTAATTTTGTATTTTATGATAGATGTGGTTTCTCCATGTGGTCAAGCTGGTCTTGAAC  
TCCTGACCTTAGGTGATCCGCCACCTCAGCCTCCCAAAGTCTGGGATTACAGGCGTGA  
[T, A]  
CCACTGCATCTGGCTGAAACAGTTTTTCAAAAAGATTAAATCATCTTGGGTTAATAGAAA

FIGURE 3SSSSS

- AAAATCAGGCAGAAAGATAAACTACTTCTGTCTTACTTAAAGGATTCCTGTGTTATGC  
TATTAGGTATCTCCCTCATCTTAATTGAATATGATGCAAGGCAGTGTCTTGGTGGAAAGC  
TGGATTCTGTGAGTCTGAACCTTGGAGATGTTCTTCTATCCCTTCTTATTTTGTCTT  
AACTTTTCTACCCCTGATTCTCATATCTTCTAACCTACTCGTCTGTACCATATTATCATA
- 121866 TCTGGTGAAGCTTTCCTGGGCATTTTTGTGCTAAAGCTTTTGTCTACTTTCTCAAAACAC  
TTGCAGTCAGCAGATATTATTATCTTTGGAAAGTCAACAGGCAAAATATCTTGAGCATT  
CAGAAAACTGTTGCCATGACCTTTGCTCTTGACCAGTCCATGTTTGTCTTGACTGGACT  
ACTTCTATCTCTTGGTAGCCATTGCTTTGATTGTGCTTTGTCTTCAAGATCTGTAGAGCT  
GTGTTTCATTTCCTGTTACAGTTCCTTTGAAGCAGTACGTCAAAATCTTGATCCCACTTGT  
[-,T]  
ACAGTTTTGATTGAAAGCTCTGCCCTTGTATGCAGCTGATCTGGGCATAAGGATTTTGGC  
CCTAATCATGTGGAAAGTTTGCACAACTTTAATTTTTCAGTCAGAATTGTTAACCTGAA  
CCAATTGCAGTGGCTCTGGTGGTGGTATTGTTTGTGCTGTTAATCATTTATCTTCTCA  
ATTAGGGAACAAACAAGATGAGTTTTTCTTGCAAACTGATGTGGAAGGTCAGCTGCTG  
GGGCTTCATCTTCAACATAGTCTTGTCTTTCAGTTATCCATTTGTAAACTGCTATCTC
- 122895 AGCTTGTAAGCTTATTTAGTGCACCTTAAAAATTCCAATATTATATCTTTTAGCTGTAGA  
AGCTTCATTTGGTCTTTTTATGTTTTCTATCTTTCCCTCATAATTTAATGTTTTCTTT  
AAAATCTTTTTTGTCTTCTTCTTTTTTAAAAATTTCTTTTGGCCAGGTCAATAACTGC  
ATAGTGTTTTTCTGAAAAATTTTTGAAAAATTTTACGATACCTGTTTTTAAGATCTTGT  
GCCAATTTTATCACTTCTTTTATTCTATATCTATTGTATTGAAGCTTTTTTCTCCAAT  
[G,A]  
TTTTTATATTGGATCAAGTTTTTGTATTATTCTTTAAGATCTCTAAACTTTACAGAAAA  
TTTGCAAGAACAGTCACAAACATTTTTTCTTCAACCATTTGAATTTAGTTGCTGCCATA  
TGCCCCATCAGCTGAATACTTCACTGCGTATTCTACAAAAAGCAAAATCTCTTACAT  
AACCACAGTGTAAACATAAAATTAGAAATGAGCATTATTATTGTCACTCAAGTTTTGTCA  
GGGCTCCCAATAATTTCTTTATGACAAAAAAGTTAGTCCAGAAATCATGTGTTGCATTT
- 131609 TTATTGTCTATATCAGCATGCATCACTCAGCTGGTCATTGCAAAAGTGCTTGACTGTAA  
CAGGGCGGTCTGGTACTGAGACTGGGCTCCCTTGGAACTGCTGTGGGATGGAGGTTGGT  
GTTCTTGTCACATTGGCTCAGATGGGCATGTGTCTCCAGCAGGTCCGTACATAGATGGG  
ATAGCTCCACAGCTGCAGCAGGAGGGGCTGGAGCTAAGACTGGGCCCCCTTGGAATCTGC  
TGTAGGGACGGATTGGAAAGCTTGTCTTGTGGCTCAGAGTGGCATGCATCTCCAGCA  
[G,T]  
GTCTCAGCACAGATAGGATAGTTCCTCTACTGCACTGGGCGGGGCTTAGACTGGGTCTCC  
TCAGGATATGTTGTGGGATAGAGGCTGGTGAGCATGTCCGGGAGGATCAGAGTCCAGGC  
CATGAGATTTGTGTGAATCTCCCCCTGGTTTCTTGTGTAAAGCAACTATAAGCTGGGACCT  
CAGCTAGGGAGGGCTGGAGCAGTGTACAGTTCAACTCCAGGTTCACTACTGAGACCAG  
TTATCAGTGGGCTGATGAGCTTTCTGCCAAGGCATTAGTGTGCATGATTTCTCTGAACC
- 131723 GTTGGTGTCTTGTGCATTGGCTCAGATGGGCATGTGTCTCCAGCAGGTCCGTACATA  
GATGGGATAGTCCAGACTGCAGCAGGAGGGGCTGGAGCTAAGACTGGGCCCCCTTGA  
CTCTGCTGTAGGGACGGATTTGGAAAGCTTGTCTTGTGGCTCAGAGTGGCATGCATCTC  
CCAGCAGGTCTCAGCACAGATAGGATAGTTCCTCTACTGCACTGGGCGGGGCTTAGACTG  
GGTCTCTCAGGATATGTTGTGGGATAGAGGCTGGTGAGCATGTCCGGGAGGATCAGAGT  
[C,T]  
CCAGGCCATGAGATTTGTGTGAATCTCCCCCTGGTTTCTTGTGTAAAGCAACTATAAGCTG  
GGACCTCAGCTAGGGAGGCTGGAGCAGTGTACAGTTCAACTCCAGGTTCACTACTGA  
GACCAGTTATCAGTGGGCTGATGAGCTTTTCTGCCAAGGCATTAGTGTGCATGATTTCTC  
TGAACCTTTTGGCAGATGATTTTGGTTGCAGGCTCAAGGTCAAATGGGGCTATAGTCAAG  
CCCCCTGAGAGACAGGGCTACTTCTGGGCTTGAATGCAAAAGCAAGCTCAGTGGAGCAGA
- 132231 GCAGGCTCAAGGTCAAATGGGGCTATAGTCAAGCCCCCTTGAGAGACAGGGCTACTTCTGG  
GCTTGAATGCAAAAGCAAGCTCAGTGGAGCAGATCAGTCACTTGGGTGTTAGGTACCCCT  
CTCAAAGTGACCCCTCCTGTGTCTTAGGGTTTCACAATTGTGGATGGATGATAATTCTTT  
TTATTGTGGGCATATATGAGCAGGTTACCTTCTATTTCGCCATCTTGGTGGTGTCACTCT  
ATGAACATACATACTTAAGAGAAATTTGCTACACAGAATATTAGAGCATCCTTTTTTTTTT  
[T,-]  
ATGAATTAAGTCATTATCGTGAACATCAAAAATAGTAATGTTACTTTGGGAGGCGGAGGC  
AGGCAGATGACGAGGTGAGGAGATTGAGACCATCTGGCTAACACAGTGAACCCCTGTCT  
CTACTAAAAGTACAAAAAATTAGCCGGTGTGGTGGCGGGCACCTGTAGTCCAGCTACT  
TGGAAAGGCTGAGGCAGGAGAAATGGTGTGAACCCAGGAGGCGGAGCTTGCACTGAGCCGAG  
ATAGCGCCACTGCACTCCAGCCTGGGTGACAGTGCAAGACTTCATCTCAAAAAAAAATTT
- 135632 CTGTCTGGGCATTTGAGTTAATTTTTATAGTTTATATCAACACATACTTCTTAGTATTGT  
CTATCAAAATTAGGGTTATTGTAAACATATAATTAAAACTGTAAACAAAACTGGATTAAAT  
CATAATTACTTCTTGTAGTAGAACAAAAATTATAAAATACGTTACACAGATTTTAAAAATC  
TCTGGAATAAATGTTTCTTAAAGTAAAAATTAAATAGAAATATAAATTAGTATTAAATAGTT  
TGCTCAAAAATCTCAGGCAGTAAAGAGGATTATCTATGATGTCATTTCAACAAATATAT

FIGURE 3TTTTT

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- [-,A]  
CACACACACACACATCAGAACTGTTTCATAAGTATGTTTTTCTCTACAAATGTA  
TAGCGGTCTTTAATATGTTCTACAAGTGGTTCATGTTGGGTAATGTAAATTCATGTA  
TTGTGCATAGCTTCTTGATGTGTATATTGATTATAAAATTTTTGCTGGTGGTAATTACAG  
TGAAGGGTGAAGACAACCTACAGGTGTCAGTAGTAAGTGTGATATGAAACATTGCTGTTA  
TCATCCTTCTTAATTAGAGCTGCCTCATGTGATGAGAGTATAAATTGTCATTAGGAACCT
- 141539 ACATTCAGATCAAAATCATATAATTAGTCCCAAAGTGACAATGCATAAAGAAGAATGTTTC  
TGGGCTGGGCACAGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCCGAAGTGGGCG  
GATCACGAGGTCAGGAGATCAAGATCATCTGGCTAAGATGGTGAACCCCGTCTCTACT  
AAAAATACAAAAAATTAGCTGGGCGTGGTGGCAGACCGCTGTAGTCCAGTTACTTGGGA  
GGCTAAGGCAGGAGAAATGGCGTGAACCTCAGGAGGCGGAGCTTGCACTGAGCTGAGATCGC  
[G,A]  
CCACTGCACTCCAGCCTGGGTGACAGAGCGGAGACTGTCTCAAAAAAAAAAAGAAGA  
AGAAGGTTTCAAGAATTTAGTTTCTAAATTCAGGATGTTTCGCAATTGAGCAAAGAATCA  
TGATATTGCTAGTCTTTACTGTCTTGCTCATGCTAAATCAAATTATTTGACTACTTAA  
AATTACTGAAAAGATAAGACATGGTAATTAGCCATGAAGCAGAGGATTGCAGCCAGCACA  
TTGTAAAGTAGAGCATAGATATACTATTGCTTGTTAGTCATTGAAGTCTTTGTATTTCAA
- 142214 TAGATTCTTTGGGACTTGAAGAATAAATAAGCCTGATATTTACTTCTCTCTGTGTGTTT  
ATTTAAATTACGGCACCTTTGAATAAGAATTTTGTGATATTTATATTGTAAGAGGAAA  
TGCTGCATGATTTCTTTTCAAGTATTTTACTACATTTGGGAAAAATAAAAATGCTGTT  
AAGGGTAACATAGCTCTTTGGAAAAATGGATAATATGATAGGGAGTGAGACGTTGAGGGAG  
GAAGGGAGTTGAATTATACTGGGCTAATAAATATTAGATAACATTCCTTTAGTGCTT  
[C,A]  
TTACATACTAGAACTACTTACATTGCTTTACAGTAAAGAAAACTCACAGAAAGGTCCC  
TGCATTAATGCAAAGTAGGATATTATACAATTTGGCAGTTGACTCTAGTACTTTGTCTTAC  
CTCCTGACTAGCTTACATTTTACCTTTTCAAGGTTATGATGTGGTGAGTAGAGCAAACT  
TGGGCACTAAATATTAGTCAACCTTGCTTAGGCAACAATCTCTGTCATCAAAAGTGCAG  
ACATGTAGGGTTGGCCAGTCTCTCTGACTGACGAAATGAGTACTGACTAACCTGTAGA
- 145778 GGGGTAAGCACATTTTTTTCTGAAACAGTTTCAAGTAAATGTAGTCTCTGTACTGC  
TATTCATCTCTGTGCTATAGTACAAAGCAGCATGGAAAAATATAAATCAAATGCGAAA  
ACAATTTGGTTGGTCAGATTGGTCTGTGCTATAGTTTGGCTACCCAGTTTAAAGATAC  
CGTAATATCCCTTTGATCTGTGGTGTATATGTCTTTGAATAGCAATAATTTGAAAGG  
GGGCTTGACTTTTGAAGGAAAAAGAAAGTTAATGCTTTGGGAATGTCTGCTTATATATT  
[A,G]  
GCTGTACATTTTCCCTATTGTGTGCTATGTCTAGCAGATAATAAAGTCTTATGAAAT  
CATTTTCATTATGTTAGTGATTAAGCATTGTGATTTAACTTTTTCATAGAGTTGTTTTG  
ATTTCTAGGATGTGAGTTTATGGTTTTGTTTCTTACTGAAGCTTTGAAAGTCAGCCA  
AGAATATTTCTCAGTTTCAAAAACATTTTCACTATGCTTTTCTCCAGCTAGCTTTCAATG  
ATCTGTGAAATAAAGAGCAAAGGCCGATGGGTAATAGGAATGCAAAGAATTATTGTCA
- 151190 AATATGGTTACCTTCTCCGGCTATCTCCTTTTCTTTCTTTCTTCACTTAAGGAAATGAT  
GTAAAAACATTTTAGTTTTTTCATAACTTATAAATGTATCTTTATTACAGATTTTAC  
TTTTTGAACAGTAAAAATCATTGACAAAAATGATGTTTTTAAAAATAATTTATTCTTCA  
TGAATTATAACTTGTTTTATTGTATACATGCTTAAATCTTAAAAATATAAATTTGTC  
TCTTTTCTATTTTACAAAATATCAAGGAAGTGAATAATGTTATCATCTTCAAGGTAT  
[A,T]  
TATGCGGTGAAATGTAATTCATACTCCTCCAACTTTGCTATGGAGAGGGGAGTATT  
TTTAGAAAGAATCTCTTTTATGTGTTTGTCTCTGTCAAACTTATTTCTCTCAGGTGG  
TTGTACTCATTACTACTCTTTGTCAAAGAAAACTGACTCTTCTCAAGTATATAGGTTT  
CTTAATCTTAGTAATTTATTTGAAAGAAGTTCAGTGGGATTGTGAGGTCAACTAAAG  
AAAAGGAAAGGCAAACAGAAATCTAAAAACATTTAGATGTATTGTTGACATTTTAAATGAG
- 157553 ATGAACTCCTCTAGGTAGGGCACAAAAATTAGAAGAATTCTGTTTTATCTAGTAGTGTAG  
TCAGGTTAAACATTTTTTGTGTGATGTGAACCTCGCCAATGCTAGGAGTATAACCTTCC  
TATTGATAAATCCAGTTGTTATTTTTATTCTTTACTTGACTCGAAAAATTTGACACA  
GTTAACTCCAGCTTTTTTTCTTTCTTTCTTTTTTTTTTTTTTTTTTTTGGATGG  
AGTTTTACCTTGTGTCAGGCTGGAATGCAGTGGCGAGGTCTCAGCTCACTGCAACCT  
[A,C]  
CGCTTCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGC  
GCCCCTACCCACACCGGCTAAATTTTTGTATTTTGTAGTAGAGATGGGGTTTCCCGTGT  
TAGCCAGGATGGTCTCGATCGCTGACTTCGTGATCCATGCGCTTGGCCTCCCAAAGTG  
CTGAGATTACATGAGCCACCGCACCTGGCCAACTCCAACCTTCTTGATACACTATC  
CCCTTATTCTTGGTTTCTTTCTTCTCTGATACCCGTAATAATCATATATTGAAG
- 157636 TGTGTAACCCCTCGCAATGCTAGGAGTATAACCTTCTTATTGATAAATCCAGTTGTATT  
TTTTATTCTTTACTTGACTCGAAAAATTTGACACAGTTAACTCCAGCTTTTTTTTCT  
TTTCTTCTTTTTTTTTTTTTTTTTTTTTTGGATGGAGTTTACCTTGTGTCAGG

FIGURE 3UUUUU

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- TGGAATGCAGTGGCGAGGTCTCAGCTCACTGCAACCTACGCTTCCTGGGTTCAAGCGATT  
CTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCACTACCACACCCGGCTAA  
[A,T]  
TTTTTGATTTTTTAGTAGAGATGGGGTTTACCCGTGTTAGCCAGGATGGTCTCGATCGCC  
TGACTTGGTGATCCATGCGCCTTGGCCTCCCAAAGTGCTGAGATTACATGCATGAGCCAC  
CGCACCTGGCCAACTCCAAACCTTCTTGATACACTATCCCTTTATTCCCTTGGTTTCCTTT  
CTTCTTCTCTGATACCCGTAATAATTCATATATTGAAGCCCTAACCCCGAATGTGATGGTA  
TTTAGCGATGAAGCCTTTGGGAGATAATTAGGTTTAGATGAAGTCGTAAAGTTAGTTCC
- 162146 TTTAATATATATAGATCTGTAGTGATGTGCTCTGTCTATCTGATATTAGGAATTTAT  
GTCTTTTCTCTTTTTTTCGTAGATAGCCTGGCTACAGGCTTATTGATTTTATTGATTCTC  
TGAAAGGACCAACTTTTAGTTTCATTGTTTTTTTCTCTTTGACTTCCTATTTTAGATTT  
CATTGATTTCTGCTCTAATTTTTATTATTTCTTTGTTCTGCTTACTTTAGCTTGCTCTT  
CTAGTTGCTTAAGGTGAAAGCTTAGTATTGATTTTAGATCTTCTCTAATATATACTCTCA  
[A,G]  
TACTATAAGTTTTGCTTTAAGTACTGCTTTCTCTGCATTGACAAATTTTGATAAGTTCTA  
TTTTCTTTGTATATTTATAGACAATAGAACTTTGATAAGTTCTATTTATATATTTATAGA  
TATATATCTATAAACTAGTGATATATGTAAATAGTATATATATATGTGTGTGTGTGTG  
TGTGTGTGTGTGTATATATATAAAGAGAGAGAGACAGAGACAGAGACAGGGTCTTGCT  
CTGCTGTCCACCTCAGTGCAGTGGTGTGATCACAGCTCACTAAGGCCCAACCTCCCT
- 163621 GTAAAGTGGGTTTCTTGTAGGCAATATATAGTTAGGCTTATTTTTTATTTCATTCAATC  
TCTGTTCTTTAATTGGTGCTTTAGGCCGTGTAGTGTAAAGTGATTATTGATATAGTTG  
GATTAATATCTACGATATTTGTTACTGTTTTCTATTAGTCGCTTTGTTCTTCTTCCCA  
TTTCTTCTTCTCTTTCATGGCTTAAATTGAGCATTATGTTATTTATTTTATCTCTTT  
TCTTAGACTGTTAAGTTTTTGGGTTTTTGTGTTGTTGTTTTTCAAGTTGTACCTAA  
[A,G]  
TTTTGCAATATATTTCTACTTTCAAATAGCCCTATTCACCTCACAGGTAGTGCAAGTACC  
TTATAATAAAAAAATTCCTAAGTTATCCTTCTCATGTCCCTTGATCATTTTTTGTCATT  
CATTTCACTTGTCCGTAACTATAGGTATCAAATACATTGTTGTTATTTTGAACAAGCTT  
TTCTTAGATCAGTTAAAGTAGGAAAAATTAAGTTTTTATCTTCTTTATTTCTTCTTTC  
TCTTCTTTATATAGATCAAATTTCTGACCTATATTTCTTCTTCTGAAGAACTTTAA
- 164329 ATTGGTGGGTTTTTTTCTCTCAATAGTTTAAATATTTCCGTTTCACTTCTTTTTTGCTCAC  
ATGGTTTTCTGAGGAGAAGTTAACGTAATTTCTGCTCTTCTGTAAGTAAGGTGGTCCAC  
CCTCGACATATGACTTCTTAAAGGTTTTTTAAAAATCTTTGATTTTCTGCCTATGTGTA  
GCTTTTTGTTGTTGTTGTTTTTACATTTATTCTGCTCAGTGTTCACTGGACTTCTCG  
GATGTGATCTGACATTAATTTGGGAAATTTCTCAGTGAATGTTCTTCAAATATTGGTT  
[C,A]  
TCTTCTTCTTCTTTTTGGTGTGCTATTACACATGCTACACCTATTTGCTTCATAGTTCT  
TAGATATTTTGTCTGTGTGGTTTTATTATTTTTTTTAAATCTAGTCCAGTATTTTGT  
TTTCATAAAGTTTTCTTATCCTTGCTTTTCAGTTTTGGAAGTTTGTATATACATATCCG  
TAAGTGCAGAGATTCTTTCTCAGCTGTTTCCGGTTGACTAATGAGCCCATCAGATGTAA  
TCTCTATTTCTGTACAGTGTTTTGATCTCTAGCATTTCTTTTTTATAGCATTTCTTTT
- 164414 AATTCCTGCTCTTCTGTAAGTAAGGTGGTCCCCACCCCTCGACATATGACTTCTTAAAGG  
TTTTTTAAAAATCTTGATTTTCTGCCTATGTGTAGCTTTTTGTTTGTGTTGTTTGTGTTT  
ACATTTATTCTGCTCAGTGTTCACTGGACTTCTCGGATGTGTATCTGACATTAATTTGGG  
GAAATTCAGTGAATGTTCTTCAAATATTGGTTCTTCTTCTTCTTTTGGTGTGCT  
TATTACACATGCTACACCTATTGCTTCATAGTTCTTAGATATTTGTTCTGTGTGGTTT  
[T,-]  
ATTATTTTTTTTTTAAATCTAGTCCAGTATTTGTTTTATATAAAGTTTTCTTATCCTTG  
CTTTTCAGTTTTTGAAGTTTGTATATACATATCCGTAAGTGCAGAGATTCTTCTCAGC  
TGTTTCCGGTTGACTAATGAGCCCATCAGATGTAATCTCTATTCTGTTACAGTGTTTT  
GATCTCTAGCATTTCTTTTTTATAGCATTTCTTTTGTATTCTTGCTTAGAATTTCCATCA  
CTCTGCTACATTACTCATCTTTCTTACTTGTGTGCTACTTTGTCCATTAGAATCCTTA
- 164418 CTGCTCTTCTGTAAGTAAGGTGGTCCCCACCCCTCGACATATGACTTCTTAAAGGTTTT  
TTAAAAATCTTTGATTTTCTGCCTATGTGTAGCTTTTTGTTTGTGTTGTTTGTGTTTACAT  
TTATTCTGCTCAGTGTTCACTGGACTTCTCGGATGTGTATCTGACATTAATTTGGGAAA  
TTCTCAGTGAATGTTCTTCAAATATTGGTTCTTCTTCTTCTTTTGGTGTGCTATT  
ACACATGCTACACCTATTGCTTCATAGTTCTTAGATATTTGTTCTGTGTGGTTTTATT  
[A,-]  
TTTTTTTTTTAAATCTAGTCCAGTATTTGTTTTATATAAAGTTTTCTTATCCTTGCTTT  
TCAGTTTTTGAAGTTTGTATATACATATCCGTAAGTGCAGAGATTCTTCTCAGCTGTT  
TCCGGTTGACTAATGAGCCCATCAGATGTAATCTCTATTCTGTTACAGTGTTTTTGATC  
TCTAGCATTTCTTTTTTATAGCATTTCTTTTTGATTCTTGCTTAGAATTTCCATCACTCT  
GCTTACATTACTCATCTTTCTTACTTGTGTGCTACTTTGTCCATTAGAATCCTTAACAT
- 165385 GGAAAGGCTAGAGAGGGCTGAAGTTGGGTATTTCTCTTCTCTGGGTCAGTTGGTGTCTA

FIGURE 3VVVV

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- ATAAAACCTCAATAACATAAGCTCTGGGAAAAAATATTTCTCTTGAGGAGCAGGCCTTT  
TTAAGAGAGAATGCTCTAGTGATTTTCACAATGGGTACTTTTCTCTCCTGCCAGAA  
GCACAGGGTAATTTTCTCAGATCTTCACTGTGAGAAGCTGGTGTAGTTGCTGAAGATAA  
AACTCACAAATGTGTGAGGGACCCCGCTCTATGACTCTCAGACTTGTCAAACACTGAACC  
[C,T]  
CCAGCAGTTTGTTAATTGCATTTCCAGTTGTCTACCTGGCACTGGCTCTCATGGAGGT  
TTCTCTTTGTGGGTTTCCGCTCCAGAAAGTTGTGATTTTCTGTACCTGGGCTGTCTGTCT  
CTCCAATTTTGGGGCAGTGATTTGCCCTGTGACCTTACTAATATGATGTATCTAAGAAG  
AGTTGGTTTTTTCAGTTTGTTCAGCTTTTACTTGCTGTTAGGACAGAGCGAAGACTTCCG  
AGCTCTTAACGTTCTGGACCAGAAATTTGAACAATGCTGTCTTTTATTGTCTCTCTCT
- 169409 ACTCTTCAATATCTACTCCCCAATCTTGATCTTACTTTTAGCATATTTCTCTAGAGAAT  
TGAAGTTTGTAAATTTCTTTGTTCATCTAATTTATTTCTCCAGAGTTTTCACATTTTCA  
TCTATACGAAGGTACATTTCTAGCTATTTAGCAAGTACTAGTTAGACTCCAGTTGCCATCA  
ACACAAGAACTTTGAAGAAGTACTGTCTAATTTGTGTTTTTAAAGTAATTAGAATAAAA  
ATAATGGATTATTTCTATTTTAAAGAGTTAGTCAGGCTGTACATTAAATTAAGTAGT  
[A,G]  
TAGGTGCAAAACCAGTCTTTTAAACTATTACTACCACTTTTCCCTAGGTCATAATTTA  
ATAAAGGAGTTCAAGTAATTTAAGTTCTCATCTATATCTAATATGTAATTTTATAAGG  
ATTTAAGTTGAGTAAACATTTGCTCTCAGAGCGTGAACCACTTTCTCTTTTGTGTGTG  
CTGGCATTATTGCCTTGTGTATGACTTTATGAGCTACTTTCTCTCTGTGTACATATACAC  
ATTCTTTCACTTTTAAAGATGTGATTTTAAAAAGACCCCTTTGAATGTAACATTTAT
- 169427 CCCAATCTTGATCTTACTTTTAGCATATTTCTCTAGAGAATTGAAGTTTGTAAATTTCTT  
TGTTTCATCTAATTTATTCTTCCAGAGTTTTCACATTTTCTATACGAAGGTACATT  
CTAGCTATTTAGCAAGTACTAGTTAGACTCCAGTTGCCATCAACACAAGAACTTTGAAGA  
AGTACTGTCTAATTTGTGTTTTTAAAGTAATTAGAATAAAAAATAATGGATTATTTCTATT  
TTTTTAAAGAGTTAGTCAGGCTGTACATTAAATTAAGTAGTATAGGTGCAAAACCAGTC  
[T,C]  
TTTTAAACTATTACTACCACTTTTCCCTAGGTCATAATTTAATAAAGGAGTTCAAGTAAT  
TTAAGTTCTCATCTATATCTAATATGTAATTTTATAAGGATTTAAGTTGAGTAAACA  
TTTGCTCTCAGAGCGTGAACCACTTTCTCTTTTGTGTGTGCTGGCATTATTGCCTTGT  
GTATGACTTTATGAGCTACTTTCTCTCTGTGTACATATACACATTCTTTCACTTTTAAAG  
GATGTGATTTTAAAAAGACCCCTTTGAATGTAACATTTATGTGGCAAGAAAGCCTTGC
- 169482 TTCTTTGTTTCATCTAATTTATTCTTCCAGAGTTTTCACATTTTCTATACGAAGGT  
ACATTCTAGCTATTTAGCAAGTACTAGTTAGACTCCAGTTGCCATCAACACAAGAACTTT  
GAAGAAGTACTGTCTAATTTGTGTTTTTAAAGTAATTAGAATAAAAAATAATGGATTATT  
CTATTTTAAAGAAGTTAGTCAGGCTGTACATTAAATTAAGTAGTATAGGTGCAAAAC  
CAGTCTTTTAAACTATTACTACCACTTTTCCCTAGGTCATAATTTAATAAAGGAGTTC  
[A,G]  
GTAATTTAAGTTCTCATCTATATCTAATATGTAATTTTATAAGGATTTAAGTTGAGT  
AAACATTTGCTCTCAGAGCGTGAACCACTTTCTCTTTTGTGTGTGCTGGCATTATTGC  
CTGTGTATGACTTTATGAGCTACTTTCTCTCTGTGTACATATACACATTCTTTCACTTT  
TAAAGATGTGATTTTAAAAAGACCCCTTTGAATGTAACATTTATGTGGCAAGAAAGC  
CTTGCTTTGGTTAGGTATTTTGTATGTGATAAAGATCCTTTGGTAAATTCAGGAAAGC
- 169833 TAAGTTGAGTAAACATTTGCTCTCAGAGCGTGAACCACTTTCTCTTTTGTGTGTGCTG  
GCATTATTGCCTTGTGTATGACTTTATGAGCTACTTTCTCTCTGTGTACATATACACATT  
CTTTCACTTTTAAAGATGTGATTTTAAAAAGACCCCTTTGAATGTAACATTTATGTG  
GCAAGAAAGCCTTGGCTTTGGTTAGGTATTTGCTATGTGATAAAGATCCTTTGGTAAAT  
TCAGGAAAGCTTTGGACCTTAAAAAATCATTCCCTTCTGATGCAGTATTTATTAGAAG  
[A,G]  
TAGGTGAGTTCTGAGTATTTATAGAATCTGGGTTGGTGTAAAGGCATCTCTGAAGTCTAT  
ACAAAGTATAAGACTGTATCTTAACAAGGACTGTAGAAACTGCTGAAAGAGCCCTTAAAG  
TTTACCTAATTTGCTCTGGTTTCACAAATAAAGGGTGTGAATCCAGAAAAATCTTTC  
TCTGGTAAGAATTCATTGTATTTTATGATATTTATTTCCCTGGTTTCCCTGTGGTTAAT  
AAGCTCTAAATGTCTTAGGATTTTGTCACTACGGCTTAATCTAATAGTAGCCTTCTTT
- 172752 GGTAAGTTAGCAAATTAATACCTTAAGAAAAGCTGGCTCTAACACCTAGACCATTTTCTA  
GAAAGTCTACCAGCAACAGTTTCTTCACTCAGTCACAGCCAGCTTAATCACACAAAACTC  
CCCTCACAAATTCCTTTTCACAAACCCATTATCACCCACACAGACCATCCATGACATGT  
CTGGACCTTGTGAOCTGTCTACACCATCTCCCTCTCAAAACAACCACTTACTTTACTCTA  
GGACAAGAATCCACCATGCAAGGTCCCTCATACAAAATCACTTTCTTTATATCCCTCCCC  
[A,C]  
CAAAAAAAAAAAAAAAAAAAAAAAAAATATATATATATATATATGTGTGTGTGTGTATAT  
ATATATATATCTTTTATCCACACTTTCTCTACATCCCTCTTTTATTTCATTGATTCCCTC  
TTATTTTGAACCATGGCCTAAATGTGCTGTATATATCTGTAGTTATGGTGGGGAAGTG  
CCTTCAGTATTTAGTGATAATTTAAAAAGGTTAATATTTAATTCATTCTCTTTCAGG  
TAGAACTCCCTGTGGAACATGAATTTTAACTATACTTTTGTACTACTCAGATGAT

FIGURE 3WWWWW

- 174593 ATTCGTGAATATCTTTGAATTCAGTTTATTTGGGTACTTTTAGTAGCGGATACCTACTAT  
ATAACAAGCTCCTAATAAGAACTATTAAATTATAAGCATTATCCCTAGCGTATAAACCTA  
GTTTTCTTGTAGTAGGAAATTTGAAGGACTTCAAAAATTTTACTTTAAGCCATCTATGGA  
AAAGATTGCCCAATTGAGAAAAATTTGTGAAAGATATGTAGAAGTCTTAAATAATTTTGGT  
TTCAGGATTATTTCTATTGTTGTGTGTAGACTCATGGAGGTAGTAAATTTGGCATTAATTT  
[T,C]  
CCTTACAGTTTTTCTGGAAGAGGAAATATGCTTAATGAGCTAAATAAGACATAACATTTT  
GTTTTCTTACATTGTTGCAAAATTGAAGTTGGGTTTTGTTGTTTGTGTTTGTGAGATGCA  
GGTCTGGCTGTGTTGCCAGGCTGAAGTGCAGTGTCTATTACAGATCATTAAAGTTGTGCA  
GCCTTAAACCTTTTGACTCAAGCAATCTCCTGCCTCAGCCTCCCAAGTAGCTAAGATTAT  
AGGTGTGACCAACAGCATCCAGCTTAAAATTTAGTTTTCTAGAAAGTTTTATGACATGGG
- 175255 TCGATATTCAAATGACTAGTATTCCAAAAATACCCCTCAGAAGAAAGGCTACAAATGTTTC  
TTCATTCTCCATTTTTCTAGTTATAACTATTGCTCTTCTAATATTACTCTTCTTAGCTA  
AGTCAGAACTAAAAAAGCTGCAAGGACTAATTGACATTAATAGTTCAAATGAAT  
CATAATCTTTACTTTCCAAAAGTATTTAAGGAATGGATGCCTATTAATCTTTCACATT  
GTTTATCAAAATGATGTGAATAGTCTTTGGTGAGCCATTTAAGATTAAAGCTCGAAAGC  
[C,G]  
TCCGTACGGTTGTTTTCCAATTTACGCTTTGCCATCTTTACACAAGACTCTCATAAGTG  
TTTTGTTATTGTTGCTGGATTCTCTTTGTTGTTTTAAACTCCAGGTGTTTTAAC  
TTCTATGACAGTTATTATTCTTATCTTCTATGCGAGCCCTTCCAAGTTTTGGCTTTGGG  
GATAGAGAATTTGGGAGAGATCAGAGAAGAGAGACTGGTGAGAGGTTGTATGCATATGTGG  
GTCTTACTTCATTTGATGTTTCATAAGATAAAGAGGCTTTATCTCAAGGGTTGGCAGACC
- 182043 TCTATATCTTGGCTGTAGTGGTGATTACAGGACTGCATATACAGGGATACCTCGTTATAT  
TGTGGTTTTATTGCACTTTGCAAGTAGTGATTTTTTATAAATTGAGTATTTGTGGTAACC  
CTGCAAGTCCATTGGTGCCATTTTTCCAACAGCATATTCTCACTTCACATTTTGGTGATT  
TTTTGTAATATTCAATCTTCCCTCATTATTATTATTATGTTATCTTGATCTGAGATCAGTG  
ATATTTAACATTATTATTGTAATTGTTTTAGGACACCATAAACACACCCATGTAAGACA  
[G,A]  
CAAACCTAATAAATAAACGTTTTGTGTTCTGGTTGCTCCAACAGCCAGCCATTTTTCTGT  
CTCTTTCTCTCTTTGGGCTCCCTACTCCCTGAGACACAACAGTACTGAAATTATGCC  
AAAGAATAACCCGTACAATGATTTCCAGATGTTCAAGTTAAAGGTAGAGTCTCACATCTGT  
CACATTAATCAAATGCTAGAAATGATTAAGTTTCATGAGAATGGCATGTCAAAGCTGAG  
AGAGGCCAAAAGCTAGGCCCTTTTACCAAAATGTTTAGCCAAGTTGTAATGCTAAGGAA
- 191691 CCTTCCCAAGGTTGGGCTGATTTTGTATGGGATCTTTGGGCTGTGCTTTTCTGACC  
AGCAACCTCTGTGGCCAGTGGCGCCTTTGCCTGAGTTCTTGTCTGCATCTAGGAAGAAT  
GAGGTACATAGACAAGTGGAGGGTGAGCAAGACAAAGAGGAGCTTTATTGAGTTAGAAAA  
GCTCAGAAGAGGCCCTGCAGTGAGTAGCTCCTTTCTGTAGGCAGGTCTCTGTTGAGTGT  
TGAGCTCTCAGCAGAGAGGAGGCCCTGGAGTGGGTGGCTCCTCTCTGAGGCAGGTTGTCC  
[C,T]  
GACGAATGTTACAGCTCTTAGCAGAGAGGGTAGCTCCTCTCTGCTGCTGGTCATCCTGTTG  
TCTGCAGCTCTCAGCAGAGAGGAGGCCCTGAAGAGGGTAGACTCCTCTCTGATGTTGATC  
ATCCTGACCTCAGCAGCTCTCAGCAGAGAGGGTAGCTCCTCTCTGCGAGCCGGTCCCTCCA  
CTGGCTCTGCTCTGCTCTGGCTGAGTCCAGGGCTTTTATGAGCCTCAGAGGGGAGGAAGT  
GCATGCCGATTGGTCCATGGGCTGCGGTAAGGCACCACAAGTCCCACTCTGGTCCGC
- 191860 GAGTTAGAAAAGCTCAGAAGAGGCCCTGCAGTGAGTAGCTCCTTTCTGTAGGCAGGTCATC  
TCGTTGAGTGTGTAGCTCTCAGCAGAGAGGAGGCCCTGGAGTGGGTGGCTCCTCTCTGCGAG  
GCAGGTTGTCCCGACGAATGTTACAGCTCTTAGCAGAGAGGGTAGCTCCTCTCTGCTGCTG  
GTCATCCTGTTGTCTGCGCTCTCAGCAGAGAGGAGGCCCTGAAGAGGGTAGACTCCTCT  
CTGATGTTGATCATCTGACCTCAGCAGCTCTCAGCAGAGAGGGTAGCTCCTCTCTGCGAG  
[C,T]  
CGGTCCCTCCACTGGCTCTGCTCTGCTCTGCTGAGTCCAGGGCTTTTATGAGCCTCAGA  
GGGAGGAAGTGCATGCCGATTGGTCCATGGGCTGCGGTAAAGGCACCACAAGTCCCCA  
CTCTGGTCCGAGGGCTGGCAGCCTGGCCCCAGCCTTCAGGCCTGCCCTGTTCTGAAGA  
TGAGGCCCTACCCAGGGACCTGCCCTGCCCTTCCCAAGGAGAACCTGTCTGCACTCCTGC  
TGCTGCCCATCACCCAGGCTGCTCACACCCGTGCCAAGGAGCACCACAGGCCAGGCC
- 205285 AAATATTTAAATCTCTTTAGTTTTTACAGGAAGTCAATAATGAAACCAGGATCTGAGTAG  
AAACAGTTATTTTAAATCATAATATCACAGTTTTATCATATCAGTTTTTATAGTTGTAA  
AAATTTACATTCAGCAGAGGGCAGTCAAAACATAGTTCAATTCAACTATCTTATGGGAAAT  
TAAATTTTCTCTGTGTTTTCTGCTTAGGACACAAGCTGTACTTTATATAATCAGTTTG  
TAAATACATTTCAAAGCTTTCAGTTGGTAAGCTGATAGAATTGTATTACTGTTTAGCCA  
[C,T]  
GGAAGGTAAACAGTTTTTTTTTAATAAATTTAAATAAAAGGAATTAATTTTTTATGATCAT  
GAAATGCTTTATTATTTGGTGTTTTTGATGGATGGCCACTTTACATAGAAATTTGTTTTT  
TCTGCCCTCAGAAGCAGTATTTCTGTTAAATTCCTGTATTAAATTAGGCTATTTTTATT

FIGURE 3XXXXX



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- CAAAAATATTAACCTTTTATGGAATACCTTTATTTCCCTATGAACCTTGAGAAAAATGAG  
TTTTATTAGAGGCTGTAGTATAACACTAACTAAAATGTAGTTTGGAAAGTTTATTGAG
- 205541 CTCTTCAGTTGGTAAGCTGATAGAATTGTATTACTGTTTAGCCACGGAAGGTAAACAGTT  
TTTTTAATAAAATTTAAATAAAAGGAATTAATTTTTTAGATCATGAAATGCTTTATTAT  
TTGGTGTTTTGGATGGGCTGCAAACTTTACATAGAAATTTGTTTTCTGCTCAGAAAGCA  
GTATTTCTGTAAATTTGCTGTATTAAATAGGCTATTTTTATTCAAAAATATTAACCT  
TTATGGAATACCTTTATTTCCCTATGAACCTTGAGAAAAATGAGTTTTATTAGAGGCT  
[G,A]  
TAGTATAACACTAACTAAAATGTAGTTTGGAAAGTTTATTGAGTTTTCTTCCTTAACC  
TTTTCTTTGGCTGGCTGCAAACTAGTGATAATGTGTTTTTAGATGTGCTTATTTTCA  
CCTCTTCCTCCTGGAGGTTAAGCTAGTACTCATTAAGGAAAAATACAGTTTATACTAAA  
CAGTGTTTAACATATACTGATGGTATTACTGTATTTCTGTTTTGTGTTTCACAATGAGAA  
GATTCGAAAACTGTCTTTGTGTAATACTTTACTGACATACCAGACAAGTATAATCTT
- 214654 TGGGAGGCTGAGGCAGGAGAATGGCGTGAAACAGAGAGGTAGAGCTTGCAGTGAGCCGAG  
ATCGCACCCTGCACTCCAGCCTGGGCAACAAAAGCAAAATTCGGTCTCAAAAAAAAAAAAA  
ATATATATTAGCTGGGCGTGGTGGCACATTCTGTAACTCCTCGCTACTTTGGGAGACTGAG  
GCAGAAGAAATCGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGAGATCATGCCATTA  
CACTCCAGCTGGGCAACAAAAGTGAACCTCATCTCAAAAAAAAAAAAAAGAAAAAA  
[A,T,G]  
AGAATGTAGTCTGTGTGGGTGCAAGTGTATATAGAGGTCATTTAGTCAGTGGTCCCCA  
ACCTTTTTGGCACCAGGGACCAAGTTTTGTGAAAGACAATTTTCCACAGGTGTGGGGCGG  
GGGTGGTTTTGGGATGAACTATTTCACTTCAGATCAGGCATTAGATTCTCATAAGGAG  
CACACAACGTAGATACCTTGCAACGCACAATTCACAGTAGGGTTACACTTCTATGAGTGC  
GCATCTAACGGTGCGGCTGATCAGGCAGTAATGCTTGCTTGCTGTCTGCTGCTCACCTT
- 217543 AATCAGCACCAATATTTGAAGATTAAAACCTTGATCCATCTGTCAAGTTAGAATTTTGATTT  
GGAAAAGCCGACGGTAACAGTGTAAATTTCTAGTTTTACAAATGTAGTAATAAAGAATATA  
CTTCAGTGGCAATTTAAACTTCATATTAGTGAATTAAGATACTCAGTAAGTTTCAGGGTA  
TTAGATTGATAAAGCAATACCTGGATTAATGACTAGTCATTATGAGGTGACTTTTATCT  
TTCAATTAAGTCAAACTTATGTTGCATTACATGCTTTACAAAAATTCACCATTTATTAC  
[A,G]  
TTATGGTTTTGGCCATAAATAGGAGCAATTTTGGGAACCATTTATTTTGTGAATGGTTACT  
GATTTTCTGAATCATTCAAGTTCTACATTCTATTAATTTTATAAGCCTATTATTTAATA  
TGAGCTTTTTCTGTTTTTCACTGATACCCATTATTTTCACTCATAGCAGAGAAATAGG  
TTTCCAGGATAAAACAAATTTGTTCAAGTATTCAAGCAGCCCTCAGGAGTAGGCAAAATATC  
AACAGATAGGTCACTGAGAGATCAAGGATTTACTCTTTCTTTGGTATACCATAGTTCT
- 220982 GAGGCCTTGAGACGCAATAGCTATTACAGGGTGAGCATTCTAAGTTGGAAAATTCAGAC  
CTGAAATGCTCCAAAATTTGAAACTTTTGAGTTCTAACATAATGCTTGAAGGAAATGCTC  
ATTGGAGCATTAGGATTTTGATTTTAAAGGTTTGGGATGCTCAACCTAAACAGTAAG  
TATGTATAATGCAAAATATTACAAATCCAAAAAATCTGAAATCTGAAACACTCTGGTC  
CCAAGCAATTCAGATAAGGGGATTACCCCTGTATTATTAGTTTTCCAGAAAAA  
[G,A]  
AAAGATTATCAAGATACACACCCGACTTTAGCACTAAAATTTTAAAGTTGTTGTACCTT  
CAATTGCTTTATTTTCCCTTTCAATTCTAATGTTAAAAAATGTAATCCTGTTTTACAAA  
ATATTTCAAGCAAGTTTTTCAAGCAGTCGTCGCTATTACATTAACTATAAATAATCTTTTGGG  
AGACCTATCAACATCTACTTTCTCTTTCACAATTTGATAATTAACGTATATCACATCTGT  
GCCTTTCTTTCTAGGGATTTCCAAGATCTGATGGAATTTGCAATGGTTGATGTATATATG
- 223142 TATCCCGAAATTTGAAGCTTCTAAAAGGCAGAGATTCACTCTCTCCTGTGGTGGTTCTA  
GAGGCTGTGCCCTGCATAGAGTTAATTTTTAAAAAATAATTAATAATTATTTTCTTACC  
ATTTCTATTACTCATTTTTCAATTTGGAGAATAATTTTACCTGGCCACACTGATGGAACT  
TGATACATGGGCCAGCTCTTTACTCAGTTGCCCAATTTTGAATGAACTGAAAACCTG  
TGGAGATACATCAGGGAAGAGGAACATACAGAGTAAAAGACATAAAAGCCTTAAAGTT  
[-,G]  
CTTCAGTTTCTTCATTTCTCTGTAAATTACACAGGAGTCCTTCAGATAAAACTCACTG  
GTTATATGACAAATTAAGCAATTAGATTACTGCACACCTAATAATAGTAGCAAAATAATGC  
ACTTTCAATCTGCTAATATGTTAAGCACTTTTCATTATCTCTTCTTTTACATAAGGGGA  
ATCTGAAGTTTAGGGAATTTAAACCTTCCACAAAGTTAGTAGTCAGTAGTTTATATACTA  
GTATTAATCTGTTTAAATCCAAAGCCGGTGACATTAACAGTTTCCAAACGATAATAACA
- 224714 ATTGAGAAAAGAGCTTCAGTACCAAATGAAACAAAGAACACAGATTTCCAGGTGCTTTTT  
TATCTGATCATGTTGCAGCACCATTGGAACCATTTGTGCTCTTAACCAAGCCTCCAATA  
TTTTTATTTCTTTTCAAGATCAAGGGGTGGATGCCAAACCTCTCATTTTTTCTCATGAT  
TACACTACAAGGCAAGCGCACAGGGTTTGAGTTGCTGTCAGTTGCTAGGGACATACACC  
TAGGGACTGACTACTAGGGCAACCTATGCTGTCATGTACATTGTTTATAAGTCTTCGGT  
[G,C]  
AGCAAAGATCTGTCCCAACAAATGCCCCATACTCCTTTCACTTCCAAGTTATTTCTATC

FIGURE 3YYYYY

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- CTAAACAATTTTTCCTTCCTTTATACTGGAACTCCAAGATCTATAACATTTTATCATAA  
ACTTGATCTTATTTTATATTATATATTTGTGTTCCCATTTCACTCTTCTGTTATCTTACT  
CTAACACTTAAATGCTGTATGATCAAAGTTAACTAATTTCTTAAATTTAATGAATCTCTT  
TAAACCAGGAGATGTCATGCTTGGTTGTGCATGGTATACATAGGAATGATAGTTTAAAG
- 224830 AATATTTTATTTCTTTTCAGATCACAAGGGGTGGATGCCAAACCTCTCATTTTTCCTCA  
TGATTACACTACAAGGCAAAGCGCACAGGGTTTGAGTTGTTGTCAGTTGCTAGGGACATA  
CACCTAGGGACTGACTACTAGGGCAACCTATGCTGTATGTACATTGTTTACATAAGTCTT  
CCGTGAGCAAAGATCTGTCCCAACAAATGCCCATACTCCTTTCACTTCCAAGTTATTTT  
CTATCCTAAACAATTTTTCCTTCCTTTATACTGGAACTCCAAGATCTATAACATTTTAT  
[c,g]  
ATAAACTTGATCTTATTTTATATTATATATTTGTGTTCCCATTTCACTCTTCTGTTATCT  
TACTCTAACACTTAAATGCTGTATGATCAAAGTTAACTAATTTCTTAAATTTAATGAATC  
TCTTTAAACCAGGAGATGTCATGCTTGGTTGTGCATGGTATACATAGGAATGATAGTTT  
AAGGAAACCCATTTCTAGATCTTTAGTGCCTAAACTGATCTGCTTGAGAATTCACCTGT  
GATGGGGGTGGAAGTTTCTCTTCTCCAACTCCTCTTACCTCTGAAGCATCAAACAAGT
- 226572 TGTAGCTAGCCTATAGCAACTGCCTTTACTATATTTTAAATATGTGCCATTAAGTGTGTCT  
CTTGATTGCTTCTGCTTTCTGCCAGTATGGCTTACTGTTGTAAGTAGAGTTAGTTAGCTG  
GCCCACTGATACCAACCAGGAGCCTTTTCTAATCTATTATAGATTTCTAACGTGGGATA  
GGAGGCCAACATGTTTCTTTGATTACAAATAGGAGGTACATACCTTGCCAAAAATTTGC  
AACATGATAGAATTGAAGTCAGTACAGAACACACACACTCTATTTTCTTTTTTTTTT  
[-,T]  
GAGACAGAGTCTGCTCTGTGACCAAGGCTGGAGTGCAGTGGCAGATCTTGGCTCACTG  
CAACCTCTGTCTCCCGGGCTCAAGCAATTTCTTTCCTCAGCCTCCCGAGTAGCTGGGAT  
TACAGGCAGGTGCCACCATGCCCGGCTAATTTTGTATTTTAGTAGAGACAAGGTTTCA  
CCATGTTGGCCAGGCTGGTCTCGAATTCCTGACCTCAGGTAATCCGCCTGCCTCGGCCTC  
CCAAAGTGCTGGGATTATAGGCGTGAGCCACGGCGCCTGGCACACACACTGTTTTTAT
- 231688 AACTGCCTTTTTACTTGTAAATAACATGAACATAAAAAATACCAATGCAACATGTAAAGG  
TAGCTCCAAAAATTAGTAAGCACAAAGAAAATCAAGCAAAATAAGCACAAATAAAACACA  
GTAGGGCATATCCTAATGAACTGTTGAAAACCAAGTATAAAAAGAAAATTTAAAGCA  
GTCAATGAAAAAGAAAAACAAACCCACACATTAAATACAAAGGAAAAAAGTAATAA  
TTGTCATTAACTTCTTGGCAGAAACAGTGCAAAACAGGAGGCAGTGAATGCTGCTTTA  
[G,A]  
AGTTCCTTAAAGAAAAAAGTGTAAATCTAGAATTCCTTTCAAGCAAAATATCCCTTAAC  
ATATGAAAGTGTAGTAAAGACATTTGTCTTTCAAAGACTTTTGAAAGACAAATTTATCGG  
ACAAATTAACCTTGTGAGAATTTCTTGTAGCCAACCTGAAACAACACCATGAGAAATGAT  
ACCAAGTCTTTGAGGCTGGAGGAAAAATGAAGCAGATGGGAACCTGAATCCATTCACTAGA  
TGAAGCTTGAAGAAATGGAGGAGAGGGTTAGACAATGTGAAGATTTGAATAAAAAATA
- 231789 TAAGCACAAATAAAACACAGTAGGGCATATCCTAATGAACTGTTGAAAACCAAGTATAA  
AAAGAAAACTTTAAAGCAGTCAAAATGAAAAAGAAAAACAAACCCACACATTAAATAC  
AAAGGAAAAAAGTAATAATTGTCTTAACTTCTTGGCAGAAACAGTGCAAAACAGGAGG  
CAGTGAATGCTGTCTTTAGAGTTCTTAAAGAAAAAAGTGTAAATCTAGAATTCCTTTT  
AAGCAAAATATCCCTTAACATATGAAAGTGTAGTAAAGACATTTGTCTTTCAAAGACTT  
[T,C]  
TGAAAGACAAATTTATCGGACAAATTAACCTTGTGAGAATTTCTTGTAGCCAACCTTGAA  
CAACACCATGAGAAATGATACCAAGTCTTGGAGGCTGGAGGAAAAATGAAGCAGATGGGAA  
CCTGAATCCATTTCACTAGATGGAAGCTTGAAGAAATGGAGGAGAGGGTTAGACAATGTG  
AAGATTTGAATAAAAAAAGGAGGCTTTTTTTTTTCTCATTTTCCAGTTTATTTAAAGAT  
ACTTACTGTTAATGTTAAACCGATATTATAGAGTTCTGTAATATTCATCAAAGTATA
- 233397 TCCCACCTTGACCAGTGCTAGGGTTACAAGCATAAGCCACTGCACCCAGTCTTATCCCTA  
TTATGTAATTTTTTCTCCTTTCTTCTCATTTGCTTTTTTCCCTGTCTTTTCTCTC  
CACATTCCTTCTTGCTAGTCAAAATAGTGAACAGAGTTACATTTTTTAGTATATGCAATT  
GGCCTTGTGTATCTTTTGCTTTTGCTCTACAGTTTCAACCAACTATGAATTGAAAATAT  
TTGGGGTGGGGAAACAAAAATTAACAATACAGCATTTTCAAAATTTAAATTTGTTAAAAA  
[-,A]  
TAGTATAACTATCTGTAGCATTTACATTTGTATTAGGTATTATAAGTAATCTAGAAATGAT  
TTAAAGTATACAAGAGGATGTGCGTAGGTCATAATCAAGTAGATACCATTTTATATAAGA  
GACTTGAACATCCTCAGATTTTGGTATCTGCAGGAGGTCTGGAACCAATCCCTCATGAA  
TACCAGAGAATAGTATTTATTTTTTGAGCAACTAAAATGTTGTTTTCTGTAGTTTA  
AAGCATAGTTTGATTTGTTTTTAAACAAAAGTTCATCTTGGTACCTGTATTAGTCCGTTT
- 233523 CCTTCTTGCTAGTCAAAATAGTGAACAGAGTTACATTTTTTAGTATATGCAATTGGCCTT  
GTGTATCTTTTGCTTTTGCTCTACAGTTTCAACCAACTATGAATTGAAAATATTTGGGG  
TGGGGAACAAAAATTAACAATACAGCATTTTCAAAATTTAAATTTGTTAAAAAATAGTA  
TAACTATCTGTAGCATTTACATTTGTATTAGGTATTATAAGTAATCTAGAAATGATTTAA  
GTATACAAGAGGATGTGCGTAGGTCATAATCAAGTAGATACCATTTTATATAAGAGACTT

FIGURE 3ZZZZZ

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- [G,A]  
AACATCCTCAGATTTTGGTATCTGCAGGAGGTCTGGAACCAATCCCTCATGAATACCAG  
AGAATAGTATTTTATTTTGGAGCAACTAAAATGTTGTTTCTGTTAGTTTAAAGCAT  
AGTTTGATTTTGTGTTTAAACAAAAGTTCATCTTGGTACCTGTATTAGTCCGTTCTTGAC  
TGCTCTAAAGAAATGCCTAAAATTGGGTAATTTATAAGAAAAGAGATTGAATTGGCTCAT  
GGTTCTGCAGGCTGTACAGGAAGCATGGCAGCTTCTACCTCTGAGGAGGCCTCAGGGAGC
- 234058 GCTCATGGTTCTGCAGGCTGTACAGGAAGCATGGCAGCTTCTACCTCTGAGGAGGCCTCA  
GGGAGCTTTTACTTACGGTAGAAGGCAGAGTGGGAACAGATATTATAAATGTTAAACTCG  
TGTATGTAATTTAAAGGGACTAACCCAGGATATGGCTAGACCTTAAGTTAGGACTCTC  
AGCTACATGGCTGTGTTTAGTTTGCAAGTTTATCTCTTCATCATAGTTCTTCAAGTATG  
CTTGTCATTTCTGTTTGAACAGAAAAAATGGAGCAAAATCTTGAAGTTGTAATAT  
[A,G]  
GAAGTTTGAACCAAGGGGTAGAATACTGAAACAAACATGTTAAAGATGGGGTCTAGGCTT  
CACATTACGTACGTAACCCCTCAAGGGCTATTCTCTATGCTGTAGCTTTCAATTAATG  
TCAATAATAGAATTCTTAGTACAAAATTCCTAGATACCTAGTCACCATTTTAAACATTA  
GCTTGTGAGGAAATGTGCCAAAAGTTCAAAACATGAAATTACAAATAAAAACTTAGA  
AAATAATCCCTTTAGCAATTGGGAACCTGCTCAGTACCTACTCAGATTGGAAACCTCA
- 234588 AAAAACTTAGAAAAATAATCCCTTTAGCAATTGGGAACCTGCTCAGTACCTACTCAGATTG  
GAAACCTCAACTTGGTCATGTTTTTATCACCAAGACAGCTGGTATTGTTTACAACATA  
TGTCTGAGTATTATTTTAAAGTTTCTAATTGCCAGTATCTCCAGTTTAAAGGACACA  
AACCAACCTCTTTGTAAAACTTCTGCCCTCCAAAGGCTTTATGTTCTCTAAGATAGTTAA  
GAAGATTAAAAAAGAAAAAAGAAAAAAGAACTCCTGTTCTTAATGATCCCATGC  
[T,G]  
GATAGTTTTTTTTTGGATAAAGTGTAGGCTGCTGTTTCATAGAGATGCCAAGTACATATGA  
AAGGAGGGACTCATATGGAAGGTGAACCTTATTACCAGAAATCCTAACCTGCAGGTAGGGT  
TTCTTTCTTCTCAAAATAAAATTAACCCATGGGGTGAGACGCAAAATTTGGCAACAACA  
CTGAATGATCTCTCTACAAGCTTTTTTTTCTTTTTTGAGACAGAGTCTTGCTCTGTG  
CTCAGGCTGGAGTGCAGTGGTGCAATCTTGGCTCACTGCAACCTCCACCTCCAGGTTCA
- 239457 TATACCGCATCCAGCAGGGGTGACTAAGTGATAATAATTACACTAAGTCTTGGGGAAGAA  
AGGATGCTATTTCAGGAGGTGGAGGAGGAATAGGTAGTTATTCCATATGGAATAATA  
CTCTAGGCAAGGATACAGACATGAAAGCAAGGAATGTATTTGAAGGATGGTATCTCTA  
ATTGCATAGTTCAAAATTTCTAATAGGAGGTGAGTGGCTAATAGAGCTAGGCAAGGAAGT  
TGAAATCACATTATGGAAGTTTGAATTTAGTAGGCAGTAGAGAGACGTAATTTCTGA  
[A,G]  
TAGAAAAAATACTGTCTAGATTTTACAAAGATTAAATCCCTGCTCTGACTGGATTAGA  
AGAAACAGAACTGTAGGCCAGGGGTGCAGGGTCTTCAGGAAAGAAATATAAGACAAGA  
AGTTAACTAAATAAAATAAGACAAGGATATATAGAGTGATATTGTAATGTATAAAGA  
AAAGTGTCTATTAGACTTGCAAGCTGGTCCATTTACATTTGATCATATTTTAGAGAAA  
CATGAACAAGCCAAGGCAAGTCCAAAGGAGATAATCAGGATTTGACGGGGAGGGAGGGA
- 239491 TAATTACACTAAGTCTTGGGGAAGAAAGGATGCTATTTTCAGGAGGTGGAGGAGGAATA  
GGTAGTTATTCCATATGGAATAATACTCTAGGCAAGGGATACAGACATGAAAGCAAGGA  
ATGTAATTTGAAGGATGGTATCTTCTAATTGCATAGTTCAAAATTTCTAAATAGGAGGTGAG  
TGGCTAATAGAGCTAGGCAAGGAAGTTGAAATCACATTATGGAAGTTTGAATTTAGT  
AGGCAGTAGAGAGACGTAATTTCTGAATAGAAAAAATACTGTCTAGATTTTACAAAG  
[A,G]  
TTAATCCCTGCTCTGACTGGATTAGAAGAAACAGAACTGTAGGCCAGGGGTGCAGGGT  
CTTCAGGAAAGAAATAAAGACAAGAAGTTAACTAAATAAAATAAGACAAGGATATAT  
ATGAGTGATATTGTAATGTATAAAGAAAAGTGTCTCATTAGACTTGCAAGCTGGTCCAT  
TACATTTGATCATATTTTAGAGAAACATGAACAAGCCAAGGCAAGTCCAAAGGAGAGTA  
ATCAGGATTTGACGGGGAGGGAGGGATGAGGGTCTGCAAGTGGTGAGTTCTCGGTTAATC
- 239555 GTTATTCCATATGGAATAATACTCTAGGCAAGGGATACAGACATGAAAGCAAGGAATGT  
ATTTGAAGGATGGTATCTTCTAATTGCATAGTTCAAAATTTCTAAATAGGAGGTGAGTGGC  
TAATAGAGCTAGGCAAGGAAGTTGAAATCACATTATGGAAGTTTGAATTTAGTAGGC  
AGTAGAGAGACGTAATTTCTGAATAGAAAAAATACTGTCTAGATTTTACAAAGATTA  
ATCCCTGCTCTGACTGGATTAGAAGAAACAGAACTGTAGGCCAGGGGTGCAGGGTCTT  
[C,A]  
AGGAAAGAAATAAAGACAAGAAGTTAACTAAATAAAATAAGACAAGGATATATATGA  
GTGATATTGTAATGTATAAAGAAAAGTGTCTCATTAGACTTGCAAGCTGGTCCATTTACA  
TTTGATCATATTTTAGAGAAACATGAACAAGCCAAGGCAAGTCCAAAGGAGAGTAATCA  
GGATTGACGGGGAGGGAGGGATGAGGGTCTGCAAGTGGTGAGTTCTCGGTTAATCAGCT  
GGGGAAAAAAGACCAAGGAAGGAATGTGATAGGCAGCTTCAGTTATTCAAGGAC
- 242177 AACCACCCCTTTTGGGCTCTTATATAAATTCAGAGCTATACCTTCAAGTCACCCCAAGATC  
TGCCCTCTTTGTGACCTCTAGTGATCCTTCTAACCCATAGTGATTTTCCCTACCTTGAG  
CTTTCACAGCCCGAGTTCTTCCATATTTGTCACTTACTTTGTATTTGAGTTATTTCT

FIGURE 3AAAAAA

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- AATTATTTTCATGTGTGTAACCTTACTTTCCCAATAGAAATTTAAGTCTTTGAAGAGAGGAA  
ACTGTATTATTGGATATTTTTTGTGTTTGTAGACAGAGTCTCGCCCTGTACCCAGGCTGG  
[C,G,T,A]  
GTGCAGTGACACGATCTCGGCTCACTACAACCTCCGCCTCTTGGGTTCAGTGATTCTCC  
TGCCCTCAGCCTCTGAGTAGCTGGGATTCAGGCACCTGCCACCAAGCCAGCTAATTTT  
TTATTTTGTATTTTAGTAGAGATGGGGTTTCAACATGTTGGCCAGGCTTTTATATCCC  
CCACTATGTCTAGCAAAAAATGTAATTGTATAATTATCTAATTAAGATTATTGAAATGC  
TTTAAGTTTTTAGATTCTAATTGAAGTCTCTATGCCAATACTTTATTACTTTTTTGGTT
- 247768 TTCTGACCTCAAATGATCCGTCCGCCTCTGCCTCCCAAAGTGCTGGGATTACAGTTGTGA  
GCCACCGCGCCCGCCTGTTCTATATTATTTTAAAACTAAACCCCTTTCTCTTTAAACAA  
GCAGACATCTGTAATATATGTAACCTAATTGTAAAATAGATAAACGTAACAGAGAGTATG  
GTTGGTATAGTTTCTGGTGTAGTGCTAAATGATTGGAACAAAGAAAGGAGAGATTACTCTG  
GACTGGAATGATCAAGAAAAGCTATATAAGGATACAACCTTGAGGTGGACTGTGAACCTG  
[T,A,C,G]  
GTAGAAACAGAGTTAGGGTTCGTTTTGGAGGTTCTAACAATTGTAATATTTTAGTAGTT  
ACAAGTAGAGCTCTGTCATTCCTCATCTAATTATAATGTGCAAGACTGATTGCATGT  
ACTCTTTGACTACAGTTCTTGGCACTAATAACCTTAAACAAAGCTGGAGGCGCTAATTAC  
CTCCTTTTCTAATCTGAATTTTGATGTGCTTTTGAAGTAGTAAGTCTTCTGGCATTCTA  
AGAAGACTTACCCCATCACTGGGGAGACATTTACTTCAGCATTACGAAAAGTAGATTTTT
- 249117 GATTTCAACCACACTGGCAGGTGTGCCAGCTCTGCCCTTTGCTAGCTGTGTGACCCCTAA  
AAATGTTACTTTAGCCTCTTTGTATTTTCAGTTTCCATGTCTGGAACACGGAAGTAATACTG  
ATGCCTCCCTTGTAGATTTTGTAAACAATTAAGCAGTTAATGCTTATAAAAGTTCTCAG  
AACCCCTGGCACATAGTAAGTCTGTTGTATAAATATTTTCAACATTATGACTGTTTTT  
GTCAGGATGGGTTTTTTAAAGCAATGCATAAAAGTACTATAAATATACATTTGTCTAT  
[A,G]  
TAATGGCCAACTAAGGAAACAAAAGCAGATAAGGTAAGCAACAAGAAATGAGGAAACAG  
AAAGAAAGGCAAAACAGGAATAGGCAGAAAGGATAAGTACTAAAAACATACATCACTTCCA  
GGGAGAGAGGACAGATCAGAAAGTTCTTCTATTCTAAAATTTGTTTATACACACACAC  
ACATGAAATGAAATTTCTAGACTATAGTAAGTGATCTTTGGGCTATTCTCTATATCATAGC  
ATTTTCACATTGTATTTTGTGTGCTCAGTTAATTATCCATCTTCCCTGCAAGCTCTTGA
- 249605 ATGAAATTCTAGACTATAGTAAGTGATCTTTGGGCTATTTCTATATCATAGCATTTTCA  
CATTTGATTTTTGTGTGCTCAGTTAATTATCCATCTTCCCTGCAAGCTCTTGAGGGTAAG  
AAACATTATGTCTTGTTCATCTTTGGAACCCCTACTGTCTAGCATGTAGAAAGCTCTCAAT  
ATTTAAATTTGAATTTAAAAATAGGGTTTTGCAATACTAAGTTGTATTTTCCATAAATGC  
TTTTCTAATATTTTCCATAAATTTTCCACAAATATGCCTTGATATTTATATATATATAG  
[G,A]  
ATTCCTTGACTGTGTGTGACGTAGTTTAAAAATTTCTTTTTCTAAAATTTTATTTTCT  
TTTTAATTTGGAAGTCTCCATTCTTATTTAAATTTAAGTGCTTATGCTATTTAATATAATA  
ATACTTGTACACCTTTAGGAAAACATAGTTGTTTACCATGCTTTATATACCATGTGTGA  
ACTTTTCTATATTTTTTCTTTTCAGAGTGATTTGTCTTTTGTGTTGTAAGCAGCATA  
CTTGATGCTGCAACCAAGTGACTTTTGGCATGCATCTTAATACTTCTTGAATATTTGG
- 250289 AACAAAGTAAGATGTGTGTCAGCATTCATCCTAACCTTTATAAAAAATGTTATAGCCCT  
ATGGGCGAGCATACACAAGATAAGTTAAATAATGTAGTAGTTGAGACCATGAGAAGGAGT  
TTGTTCTGTCTATTTAATAGTCTTTGCATGATAAATAGCTTCTAGCTTTGAAGGCTTC  
ATTAGTCTTAATTATCCAGAAAGCATAAACTTAGCCATCAAAGTGATCCCTAATAACGT  
TTTACATCTTTAGTGAAATGTTGCCTCTTAAATCTGTACCTAAACCAATTTCACTATCTT  
[C,T]  
CTATAATCTATAGGCGAAAAAGAGCATTAGCTTAGACCATCAAATGAAATGATTCAGGA  
ACTGGGTTGAGAGGCAAAACATTTCTACCCATTTTATGGGGCTTTAGGAAATTTCTT  
TCATTTAGTTCACTGTTACTTAAAGTCTGTTATTTCAGAAGACCACTACTTCTATTTTG  
AAGTATAAATACTTTAAAGATTTTCCCATTAAGATGTTGCTTTGTTGGTTTACAATACTG  
GGACTACTATATAGGAACAGATCATTTTTCTAGAGACAAGGAACAGAACTTCTGCTAG
- 251073 CTTAAATAGGTTAATAATTGTCAAAGATATTGAAATGGTAGTCAAAGCCCTCCCCAAAA  
CTAAACACAAACACTTGAATAAACAGACACACTTTCTAAGCCAAATAGATTTTATAGGA  
CATTTGTACAGATTTTTCAGGGGATGTAACCTCTGTCTCATATGGATGCTTTAAAAATAA  
AAAAAAGCCAGGATACTATCTGGCTAATTTTGAAGGCTGTACAACCCCTAATTTCCAAAA  
GATAGCACAGAACAGAAAAGTATAGGTCCACCACACTTATCATTACAAGTGTTGGGAATT  
[C,T]  
TAAATCAAATTTAGTGAATAAGTCCAATGGTTTTTTTTTTTTTTTTTTTTTTTGTAG  
TCGGATTCTACCCCTGTCAACCCAGGCTGGAGTGCAATGGTGCAATCTCTGCTCACTGCAA  
CCTCTGCCCTCCAGGTTCAAATGATTCTTCTGCTCAGCCTCCCGGTAGCTGGGCTTAC  
AGGCGCCCAACCAACGCCCCAGCTAATTTTGTATTTTAGTAGAGACAGGGTTTCAACA  
TGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCATGATCCGCCTGTCTCAGCCTCCCAAA
- 252314 TAACCTAACAAAAAATTATAATAGCTTTATGGAACAAATTACAGAACTTTACTAAAGGAC

FIGURE 3BBBBBB

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- GTAAATGAAACTTGGTTAAATGAAGAGCTATAACATGCTATTGGTGGGGCACATAACA  
ACATAAAGATACCAATTCTCCCAAATCCAATTCCAATTAAAAATTATAAAGACTTTTG  
GGGAGCCTCAGTTAACTGACTCTGATGTAGAAAAAGTTTCTTAGATAGCTAAGTCTATTT  
TGAAATGTATCAGGAAGAGGGATGATTTTTTTCAACCACATTTTAATCCATATTTGTAA  
[-,A]  
GTAATATGGAACCTGGCATAGAAACAGATGATTACACTAATGAAACAGAAGAGACAGGTCA  
AAACAGAACCATGGTGGGAAAAGGAATGTTGCTTAGTAGGTTCTTGAAGACTGGTTTA  
CAAAATTTTAAAAATAAAGTTGGGCCCTACTTCACATCACATACCATGTGAATCCACA  
GAGAACAAGGACTTAAAGTGACAGGTATAACACAGAGCTAATAGAAGAAAATGTAAGA  
GAATATTTTCTGATCTTTTTTAAAAAAAATATATATATATATATTATTTTGAGACAC
- 253696 CGTGTACATATTCTATTGAAACACATTTTCAGCTTGATAATGTTGTGTATCCAGGATGTT  
TACTGTGGAAGTGTTCCTGGTAGTGTGGGGTTGAGGACAACTTAAGTGTCCATCACTATG  
AGAATGGTCAAGTAAAAATGCAACGGATGCATCCTGTGGAACGTTCTGTAAACAGAGCAATA  
AAATAAATGTTTACGGCAATGCCCTCCAGCCAGAGACTCCTGGGAACATACACCTGGAGTG  
GAACAAGTTGGGTTTATTCCTCCTGTATGGAGGGGTAATGCACACCTTGCAAGCTGGG  
[A,G]  
GTGCTTAGCAAGAGGATGTTAGGAGGGAATTATAAGAGCTGAGCTTGTATGAGATGATA  
TGGGGGAGAGCTTAAGAAAGTGGGCATTGTACTGGATTGCTTACTTTTCAGGAGGCAGAGA  
CAACCCCATGATTGATTATCTTAATTAAATCATCTGTAAAGGAGGGAAGAAATTGAGTGAAG  
CTAATGGTGTAGTTGGTGAAGAAGCAGTCACCTTACTAGCTGGAACCTGGGAATATATGT  
TTATTTTGTGGCTTGAGAGTGTTCATATTTTGTCCATACCTGAATATGCAGCGGTCTTG
- 253831 AATGCAACGGATGCATCCTGTGGAACGTTCTGTAAACAGAGCAATAAAATAAATGTTTCAGG  
CAATGCCCTCCAGCCAGAGACTCCTGGGAACATACACCTGGAGTGGAACAAGTTGGGTTT  
ATTCCTCCTTGTATGGAGGGGTAATGCACACCTTGCAAGCTGGGAGTGTCTTAGCAAGA  
GGATGTTAGGAGGGAATTATAAGAGCTGAGCTTGTATGAGATGATATGGGGGAGAGCTTA  
AGAAAGTGGGCATTGTACTGGATTGCTTACTTTTCAGGAGGCAGAGACAACGCCATGATTG  
[A,G]  
TTATCTTAATTAAATCATCTGTAAAGGAGGGAAGAAATTGAGTGAAGCTAATGGTGTAGTTG  
GTGAAGAAGCAGTCACCTTACTAGCTGGAACCTGGGAATATATGTTTATTTTGTGGCTTG  
GAGAGTGTTCATATTTTGTCCATACCTGAATATGCAGCGGTCTTGTTTTGTCTTGATCT  
GTTACTGTACAGAGTGGCCTCGTCTAATGTTGCTGTCTGTGAAATGTTTCATGTTCAA  
CAGAATACCAAGTGAGTCTCAGACCAGCTCATGATAACATAAAGGCCATGCTAGTAATAC
- 253888 AGGCAATGCCCTCCAGCCAGAGACTCCTGGGAACATACACCTGGAGTGGAACAAGTTGGG  
TTTATTCCTCCTTGTATGGAGGGGTAATGCACACCTTGCAAGCTGGGAGTGTCTTAGCA  
AGAGGATGTTAGGAGGGAATTATAAGAGCTGAGCTTGTATGAGATGATATGGGGGAGAGC  
TTAAGAAAGTGGGCATTGTACTGGATTGCTTACTTTTCAGGAGGCAGAGACAACGCCATGA  
TTGATTATCTTAATTAAATCATCTGTAAAGGAGGGAAGAAATTGAGTGAAGCTAATGGTGT  
[G,A]  
TTGGTGAAGAAGCAGTCACCTTACTAGCTGGAACCTGGGAATATATGTTTATTTTGTGGC  
TTGGAGAGTGTTCATATTTTGTCCATACCTGAATATGCAGCGGTCTTGTTTTGTCTTGA  
TCTGTTACTGTACAGAGTGGCCTCGTCTAATGTTGCTGTCTGTGAAATGTTTCATGTT  
CAACAGAATACCAAGTGAGTCTCAGACCAGCTCATGATAACATAAAGGCCATGCTAGTAA  
TACAATACCAGAGCAGCTCTCAAATATCCCTTCTGTTTTTCAGTACTACAACAATACACA
- 253894 TGCCCTCCAGCCAGAGACTCCTGGGAACATACACCTGGAGTGGAACAAGTTGGGTTTATT  
CCTCCTTGTATGGAGGGGTAATGCACACCTTGCAAGCTGGGAGTGTCTTAGCAAGAGGA  
TGTTAGGAGGGAATTATAAGAGCTGAGCTTGTATGAGATGATATGGGGGAGAGCTTAAGA  
AAGTGGGCATTGTACTGGATTGCTTACTTTTCAGGAGGCAGAGACAACGCCATGATTGATT  
ATCTTAATTAATCATCTGTAAAGGAGGGAAGAAATTGAGTGAAGCTAATGGTGTAGTTGGT  
[G,A]  
AAGAAGCAGTCACCTTACTAGCTGGAACCTGGGAATATATGTTTATTTTGTGGCTTGGAG  
AGTGTTCATATTTTGTCCATACCTGAATATGCAGCGGTCTTGTTTTGTCTTGATCTGTT  
ACTGTACAGAGTGGCCTCGTCTAATGTTGCTGTCTGTGAAATGTTTCATGTTCAACAG  
AATACCAAGTGAGTCTCAGACCAGCTCATGATAACATAAAGGCCATGCTAGTAATACAAT  
ACCAGAGCAGCTCTCAAATATCCCTTCTGTTTTTCAGTACTACAACAATACACAAGATCT
- 255016 AATAAAACATGCCCACCAAGTGTAAAAATGATAGCATTAAATATTTCTTGTGGGAACCTTGATT  
TAGCTTTAAATGTACCCAAAAGCTTTTGAAGTACAAAAGCCCTCATATTTAGTCTCAGAGA  
AACCAAGTTTATTATATCTTAAGGAAAAGATTTCTTCATGAACCTTAAATTTAGTGTCTG  
TGTAATCATGTTTATTTTGTCAATTTACTTTTTAACTGTAGAAAAGAGCTTGATTGATTTT  
TTTTTTTTTTTTTGGAGCGGAGTCTTACTCTGTCCAGGCTGGAGTGCAGTGGCAAG  
[G,A]  
TCTGGGCTCACTGCAGCCTCCGCCTCCAGGTTCAAGCAATTTCTCCTGCCTCAGCCTCCC  
GAGTAGCTGGGACTACAGGCGTGCACCAACATGCACAGCTAATTTTTGTATTTTAGTAG  
AGACGGGGTTTCAACCGTGTGGCTGGGATGGTCTCAATCTCTTGACCTTGTGATCCACCC  
AAAGTGCTCTGATTTGGGAGACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCC  
ACCGTGCTGGCCAGACCTTGATTTTTTGGAGTAAAGAGACTTCTACCTCCACTCTAG

FIGURE 3CCCCC

10/506549

- 256221 GGCTATACTCTAGTGGTAAAGTCTGGGCTTTTAGTGTAACCATCACTGGAATACTGTACC  
TTGAACCCATTAGGTAATTTCTCATCCCTACCCGCTCCTTCTCTGCCATCTTTCCAAG  
TCTCTGATGCTGTTATTCCACTCTGTAGCCGACATTAATTTTAAAGGATAGTTACTCTT  
TATATACTACTTCTGTAATCCATAACAGATCCCCAGGTTTTTCCCTTGTCTATTAGGAA  
CTGTTTAAAAAATTTGTTTAAAGAAACAAATGTATCTCCATTCAATTTCTTGAACAACAC  
[T,C]  
TCTAATTAATGAATTAATCTCAGAAATTTTGTCTGATGAAAACATGTTATGAAATCTGTATAT  
TGTATAAGACCTTTGCTTCCCTGAGAGAAATCACTCCCATTTGTTTCTTCAGGAACCTATT  
CTTTCAGACTTGCAGGTTTGAACCTCTTGAATTTTCTATGTGTTTCTCTCTGAATATGT  
AGAAATTCATGTTTGTCTATGTAGATAGGATTAAGATGGAACCTGTGTTCTAAAAAATTG  
GGTGTGTTTTTATAAATTTGTCCAAATTTACATTTTCTTAAAAAATATATTAAGAATGTTA
- 256464 TTTAAAAAATTTTGTGTTAAGAAACAAATGTATCTCCATTCAATTTCTTGAACAACACTTC  
TAATTAATGAATTAATCTCAGAAATTTTGTCTGATGAAAACATGTTATGAAATCTGTATATTG  
TATAAGACCTTTGCTTCCCTGAGAGAAATCACTCCCATTTGTTTCTTCAGGAACCTATTCT  
TTCAGACTTGCAGGTTTGAACCTCTTGAATTTTCTATGTGTTTCTCTCTGAATATGTAG  
AAATTCATGTTTGTCTATGTAGATAGGATTAAGATGGAACCTGTGTTCTAAAAAATTGGG  
[T,C]  
TGTGTTTTTATAAATTTGTCCAAATTTACATTTTCTTAAAAAATATATTAAGAATGTTAGCT  
TGCAACCTCTTTTAAATCCATAATATGCTGACATATTATCTTTGCAATAAAGAATATTGG  
AAAAACAATACTGCTGCAAGTGACAAATGGTATTTAATTCACATGCTCCTGTGCTTCC  
ATCAGTCCCTGCACATAGGCTTCTCTACTCCTGATTCTAAAGCTCATTACACTAAAAAG  
GTTATTGAAAGGTACTTGATCTGTTTTGAGCTTAAGAAATAGAGCTAATGGACAGTGTC
- 263085 TTAAGACTCAGGCTCGTAACTGCCTGCCAAGACTATCCCTTTATTTTGTAGGTGAAACC  
TAGGCAAAGCCAATTTGGTGCTCACTCACCCCTTCCCAGAAATGAAGTTGGTTGATGGCT  
CTTTTGAAAGTATTAAAGTTCAAGTATCTGAAAAATGGAGGAATATTAGTAATAGTTAAC  
CTTTAGCTACTGAGTTGGTGCTGTACCTGTTTATCTCGTTTAAATTTTATTCTATCTCAT  
ATGAGGTAGATGTTGTTATGCCCATTTTACTGTTTTTATTATCTATCTAGTATTCAAAG  
[G,A]  
TTCATAACATCAAAAAAGTCATAATAACTGTTACAATAGCTACTGTAGATCCTTATTTTT  
GACACTACCCCTTACTCTGTTTTACATATCATTTTATTTGTCATGCAACTCTGTGAGAGT  
CTAAGTATGAATGTCTACATTTTAAATATGTACCACCTTACACTAAATAGGTTGAAGTAA  
TTTTGCCCAAACCTCACACAGCTAATAGCTGAAATAAGTGAAGTTTAACTCAGGCTGAT  
TTCAAATTTCAATTTCTTCTGCTACTTTATCTTACTTCACATATATAATTTTACCTCTT
- 265178 AAATAGGTAGCAAAATCCAGTCATTCAAAATTTATAAATAACCACTAAAGGGAGAAGTCAAT  
GCTCACTTTAGCTTGGTTTCTGCTGTTGTTCTTTATGGTGTGCATTTGTGTTTACGGTAC  
TCTCCGAAATAGCTCTTCACAGCTACTTTATGTATAAGCTCTTTGTCACATCTAATGGAA  
CTTTTGAAGTTGTTTGCATCAACTTGAATCTTTAGTTGTTCCCTAAGTTCAATCTGGA  
ATGGCTGAAACCACTTATAAAGAAGAAAGTATTAAAGGGCATTGAGTTACCCAACGTATTA  
[G,A]  
TTGTTATCGCTGAATTTCTACTTTTAAACCAGGAATATACTTTGGTCTTCGTTCAAAAGCAC  
ATCATTTTTTTGTAATTTAAATATATATGGAGACAATATAGTCTTTAATTTAGTTATTAA  
GAATATTGGTATTCTGTTTGAACCTTGGAAATTTCTGACATCAAAATTTATTTTATTACTG  
ATTAGACATAATTTGATCATTTGGTTATTTTATATCTAAGCTAAAGTGATCCTCTCTAA  
TCCTTTATACTCTAGGTTTTTTTGTAAAGGATATAATGCCAAAAATTTTGAAAAAAGAA
- 265800 CTGTAATCCCTGCACTTTGGGAGGCTGAGGTGGGAGAATCTCTTGAACCAAGGAGTTCAA  
GACCAGCCTGGGCAACATGGCAAAACCCCATCTGTCCAAAAATACAAAAATTAGCTGGG  
TATAGTGGCACATGCTTGTAGTCCAGCTACTCTGCAGGCTGAGGCAGGAGGATCACTTG  
AGCACTGGGGAGGTTGAGGCTGCACTGAGCCATGATCATACCACTGTACTTTAGCCTAGG  
TGACAGAGTGAGGCCCTATCTCAAAAAAAAAAAAAAGACTGAACCTTTAGTCTTTAATGT  
[T,G]  
ATATTTCTGGATTTAAATAAAAAACAGAAGAAAGATAATGAAGTGTGCTCTTTCAATCTTA  
ATCTTTTCAATTTTATTCTTATCAATTAACATATGGAACACATCTTAGGTAGACCATATAT  
ATTTTTATAATTTCTATATTTTGTAAAGATTTATATATTTTAGTATTGCCTCCTTAATAG  
ATGCAATCTCAAAAGTTTGTCTGTGAAGAACTTCTATTTATTGTAGTGATTTTTTCCC  
AGTGATTTTCAATATAATATTAAGCTATAAGCCATTTTCTACTTTTGACATCTAAATG
- 269688 CATCTATCCATATTCTCTCTCCCTGTCTTCATCTTTCTCTCTCTCTCTATCCTACCCAT  
CACCTATTGTATTTAGATAAGGAAAAACAGGGTTATTTTGTGGCCTCCCTATAACTTTAAC  
AACACCCCTTCTCCATTTTGTGTTTCCATGAGTGGTTGTCATTTTCCCTACTAATTTGTAG  
TTCTTTATATAATCTGACTACTAATCCTTTGTCACTTATATGTTTACACATATCCTCTCC  
CAGTCCATTTTCTATCTTTATACCTTTGTTTATGTTCCATGTGGCCTTTTATTGTAGGAG  
[C,T]  
GTTTAAACATCATCAGATTTATCAGTCTGTTTCCCTTATGATTTGTGGGTTTTATGCTTCC  
TAAAGAAATCCCTCAGTACACAAAAATCATATAGTCTTTTCTTCTTTTTTTTTTCTT  
GAGTCAGAGTCTCAGTCTGTTGCCAAGCTGGAGTGCAGTGGTGTGATCTTAGCTCACTG

FIGURE 3DDDDDD



- CAACCTCCGCCCTCTGGAICTAAGCGATTCTCGTGCCCTCAGCTTCTGAGTAGCTGGGAC  
TACAGGTACCCACCAACACACCCAGCTAATTTTGTATTTTGGTAGAGACAGGGTTTCA
- 272937 TTCTTACACCTATTACCAATTTTCTTTTTCAGGATATCCCATATAATATTATTCTCTAAA  
TAGCAAATAAAGAAAATAAGCCAAATGCAAGTCAAGTCACTTTATATCTTCTCATCTCT  
CCATTCAATTTCTCTCATTCGTTTCATTTCCTTACCCCTCTTGTCTTAAACATCAAATGGTG  
CCTTGAGGCATTAAACAAGTTGATAAAAATAAAACAAAAGCATGAATACTTGACATATTTTC  
TCTCATCACTAAGACAACATGCCAGTTAGTCAATTAATAAACAAAATAAATGTATCAA  
[A,C]  
CAGCTGGTATTATGTGGAGAAGACTTGATCCCAATGTTCCCTTTTCTCGAAGTTATTTG  
CTGTTGTCCATACTATCCAGCTATCCCAAGTTTACCTGGATAAATAGAATGCAATCAGAA  
TTATGTTGAAGCTAATTTATTGATAAAATATATACCAAAATGTATTACAAACATAAACT  
TCATGAGGTCAGTATTATTAATTTCAAATTTTGGGTTTTTCTAACATTAAATTTTA  
AAACTTTTATTTAAAAATGCCACATTCAGGTAAAAGGTAGTATGTCTTAGATGGGAAAAAT
- 273176 CTCTCATCACTAAGACAACATGCCAGTTAGTCAATTAATAAACAAAATAAATGTATCAA  
AACAGTGGTATTATGTGGAGAAGACTTGATCCCAATGTTCCCTTTTCTCGAAGTTATT  
TGCTGTTGTCCATACTATCCAGCTATCCCAAGTTTACCTGGATAAATAGAATGCAATCAG  
AATTATGTTGAAGCTAATTTATTGATAAAATATATACCAAAATGTATTACAAACATAAAA  
CTTCATGAGGTCAGTATTATTAATTTCAAATTTTGGGTTTTTCTAACATTAAATTTAT  
[T,C]  
AAAACTTTATTTAAAAATGCCACATTCAGGTAAAAGGTAGTATGTCTTAGATGGGAAAA  
TTTCAGCAGTAGATATTTCAGAATACAATGGTTGTAGAAAAAGGGATTATGAGTTTATTT  
ATGTGCAGATATACAGTTATGTTTTTAAAAATCTAGATTATAAACTGATATAAAATTCGA  
GTTTAAACAACATATCTTATTAAGATAAGAATCTTAATGCACTATGAAAAAGAAAAACAAA  
CAAAGCCAGATAACAGGTTTCTTTTGGTAGTGATCTACAAGGTATTAGGGATATGATTT
- 275790 AGATCACGCCATTGCACCTCCAGCCTGGGTGACGGAGTAAGACTCCATCTCAAAAAATAAA  
TAAATAAATAAATAAATAAATAAGCATACATACTTTACCTTCATGGATGTTTTAAGGGGA  
AGGCAGGTGTTAAGAACTTATAAAAAATACAAAGTGTAACTTTAGAAATTAAGAGTTTT  
TGAATGCTGAACAACACATTCCATTTAAATAACGTTAATAGAAACAGATTTTGAAGCCTC  
TAACATCATGGTGCTTAAGAGCATAAGAGAAACGAGCCGGCGTGATGGCTTACGCTTG  
[T,C]  
AATCCAGCACTTTGGGAGGCTGAGGTGGGCAGATCATGAGGTGAGGAGTTCAAGACCAG  
CCTGGCGAACACAGTGAAATCCCGTATCTGCTAAAATTACAAAAATTAGCTGGGCATGGT  
GGTGGGTGCCTGTAATCCAGCTACTCAGAAGGCTGAGGCAGGAGAAATCGCTTGAGCCCG  
GGAGGTGCAGGTTGCAGTGAGCCAAGATTGTGCCACTGCACTCCAGCCTAAACGACAGAG  
CTACACTCCGTCTCAAAAAAAAAAAAAAGAGCAACCAGCTGGAGTCACCGAGCATGTAGCT
- 276058 AGAAACGAGCCCGGCGTGATGGCTTACGCTTGTAAATCCAGCACTTTGGGAGGCTGAGGT  
GGGCAGATCATGAGGTGAGGAGTTCAAGACCAGCCTGGCGAACACAGTGAAATCCCGTAT  
CTGCTAAAATTACAAAAATTAGCTGGGCATGGTGGTGGGTGCCTGTAATCCAGCTACTC  
AGAAAGCTGAGGCAGGAGAAATCGCTTGAGCCCGGAGGTGAGGTTGCAGTGAGCCAAGA  
TTGTGCCACTGCACTCCAGCCTAAACGACAGAGCTACACTCCGTCTCAAAAAAAAAAAAA  
[-,A,G]  
AGCAACCACTGGAGTCACCGAGCATGTAGCTGCCAGAGCCTCCTCCCTACATCATGTG  
TGAGCTTGTTCATATTGTGAAGGGTGTGTATATGTATATGTGCACACACTGGCACACA  
AATTGCTATGCATTTGTCTTACTAAAGTGTTTTTGTCTCCCTACGGTCTTTAACTGCCT  
GGTGAACCCCTTCTGAGACCACTACTGTTTGAAGGGATCTTGCCAGCCTCTCCCTAG  
AATTGCATCTCTGATCTGTCTTCTCTCAGATACACATTTCTTAATTGAAGCTAGGACTTA
- 276824 TGAAATTACCTTTGCTAAAATTGACCTGCAATGTATTTCTTAATATATTTTCTGTTACTC  
GTTATATAATGGAGTAAGATTGTGGTGGGAAGAAACAGACTCAGGAATGTGTTGACATTT  
GCAAGGTTTAGAATCTAGATGAGGCATGAACCTGAATTTCTGGAGCTTCTTGTGGTAGCCT  
GATTTAACAATAGTTAAAGGCCAACATAAAATTAATACTGGCAGACTTGAGGCACAATAGT  
ACTGGTGATGCTGTGAGTGAGTGGTAGAGAAGGAGTGGTCTCTTGAGCCCATTTGATGAAG  
[C,G]  
CTGGCGGTCTGGGGAAGTGAATCTAAGTCCAAGTGTACAGAATTCATACTTAACCTCTTT  
GGAAAGGGGCACTCCTCCACATCAGAGCTACTCCTTGACCTCTGTGAGTTCCCTGATAT  
TCTGGGTCAAGTAAATAGATGATATAGATACAGATATAGACATAGTCATAGGCATAGACAT  
AGAGCCTGGTTAGGAGTATGAAGTAGATCCAAATCCTGATTTTTTAAATATAAAATAATGT  
TAATTACATTATGCAAAATGATTTTTATGCAGTATACATTTTGAAAAATTTAATGACCCAC
- 280661 GGAAATTGTCATTAGTACAATATTATTAATTAGACTACATAGCTTATTCAGTTCTTTATCA  
GTTTTTACCTGCACCTCATGTTTTTCTGTGTGTGCAATGCAATTTGACCCCTATTACAG  
ATTATATAATCACTACTACAATCAAGGTAGAGCATTATATATTTGATCACCACAAGGAA  
ACTCTCTGTGTACTCCTTTATAGTTGGATTCTCCCATCTCTTTTTCTCTGTCTCTGGC  
AACCACATGCTGTGTCCATCTCCACAGTTTGTGATTCTAAAAATGTACAGCTGGGCA  
[C,T]  
GATGATTGCATCTGTAGTCTAGCTACTCGGGAGGCTGGGGTGGGAGGATCCCTTGAGC

FIGURE 3EEEEEE

10/506549

- CTAGGGGTTCCGAGGCTGCAGTGAGCCGTGATCGTACTGCTGCACTCCAACCTGGATGACA  
GAGCGAGACTCCATCTCTAAGTAAATACATAAATCAAAATGTCACATAAATACAATCATG  
CAATGAGTATTAATCTTCCAAGATTGGCTTTTATCACTAAGCAGGTGTTCTTTAGATCT  
AGCCAAGCTGTATGTATCAATAGTTGACTTTTTTTTTTTTAGAAGGAATCTTGCTC
- 280667 TGTCATTAGTACAATATTATTAATTAGACTACATAGCTTATTCAGTTCTTATCAGTTTTT  
ACCTGCACTCTCATGTTTTCTGTGTGTGCAATGCAATTTGACCCCTATTACAGATTCAT  
ATAATCACTACTACAATCAAGGTAGAGCATTATATTTGATCACCACAAGGAACTCTC  
TTGTGTACTCCTTTATAGTTGGATTCTCCATCTTCTTTCTGTCTCTGGCAACCAC  
TAGTCTGTGTCCATCTCCACAGTTTTGTCAATCTAAAAATGTCACAGCTGGGCACGATGG  
[A,C]  
TTGCATCTGTAGTCTAGCTACTCGGAGGCTGGGGTGGGAGGATCCCTTGAGCCTAGGG  
GTTCCGAGGCTGCAGTGAGCCGTGATCGTACTGCTGCACTCCAACCTGGATGACAGAGCGA  
GACTCCATCTCTAAGTAAATACATAAATCAAAATGTCACATAAATACAATCATGCAATGA  
GTATTAATCTTCCAAGATTGGCTTTTATCACTAAGCAGGTGTTCTTTAGATCTAGCCAA  
GCTGTATGTATCAATAGTTGACTTTTTTTTTTTTAGAAGGAATCTTGCTCTTATGG
- 281343 CAGCCTCTGAGTAGCTGGGATTACAGGTGGCTCCACCACGCCAGCTAATTTTTGTAT  
TTATTTATTTATTTGAGACGGAATCTTGCTCTGTCAACCAGGCTAGAGTCCAATGGCGCA  
GTCTTTGGCTCACTGCAACCTCCGCTCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCC  
TGAGTAGCTGGGATTACAGGCACCCACCGTGTGGCCAGGCTGGTCTTGAATCCTG  
ACCTCAGGTGATGCACCTGCCTCGGCTCTAAAGTGCTGGGATTATAAGCGTGAGCCAC  
[A,G,T]  
GCGCCAGCCAGTTGTACCTTTTTTATCTCTGAGTAGTTACACTGCTTTATGGATGTACC  
AGAGTTTAAACCATTTATCTGTCTAAGGACATTTAGGTGTTTTCCAGTTTGGACTATTAT  
GAATAAGCTGCTGTGACCATCCACATACAACTTTTATGTGAACATAAGTTTTCATTTC  
TTTAGAATAAAGAGTACAATTTGTGAATCATATGATATATTAGTTTCTGTTGCTGCTAT  
AACAAATTACCAAGGCTGGAAGCTTAAACAACACAAATGTATCACAGTTGTATAGCTTA
- 283572 TAACACAAATGTTGACAATACAGTATAGTAACTATTTACATGGCATTTACATTGTGTTAG  
CTATTACAAGCAATCTAGAGATGATTTTAAAGTATAGGGAGGATATGCAGAGGTATACCGC  
AAATAACTACACCATTTTATATAAAAAGGACTTGAGCATCTGTGGAATTTGGTATCCTGG  
TGGGGGTAGGGAGGGGATTGGAACCAATCCTCTGCAGATACCAAGACAACGTATATAC  
TTTGTAAAGCTTGATATAAGATGATACTATAAAGCATTTAACAGATAATGTCTCAATAAG  
[-,T]  
GTTTTAATTGTTATATCATTACAACATATCACCATTATAATCTCAACAGGGAAAGCCTTTC  
ATAATCACAGCTGATTAATAACCTTTTTAGTATTCAGGCATCCCTGCTTAACACTTAA  
TATCTAGGAAATCAGATGTCCTACTTGAAAATTCTAACCAAGGAACCCATTCCCCCAAAT  
CCCCAACCAATTTCTTAAAGCTAACTAAATGCAGTGAAATATTTTAAAGTAATAAATT  
ATAATTTGGGGATGTAATAATGCTTAAACAGTGGTTTCTGATGACCTAACAAATCTAGCC
- 288144 TAACAGGACCCCTGACTAATTTCTATTTTATTTTACAAGTAAAAATTGTATATTTAT  
GGTGTGTATGATGTTTTGATATATATACACATTTAGAATGGCTAAATCAAGCTACCTAAT  
ATATGTTTTACCTCACATACTTATTTTGAAGATGAGAACATTTAAATCTACTGCCTTA  
GCAATTTTCAAATACATGATATATTGTTAACTGTAGTCATCATGACATACAATAGGTTTC  
TTGAACCTATTGCTCCTGTCTAACTGAAATTTGTGCCCTTTGGCCAGCACTACCTAATC  
[C,T]  
CTCTGCTAACCAACCATTTACTCTCTGAGTTCAACTTTTTTACACTCCACATATAAGTG  
AGATCATGGGATATTGAATTTCTGTGCCTGGTTTTATTTCACTTTATGTGATGTCCTCA  
GGGTCATCCATGTTGTCAAAACATAACAGACTTTCCCTTCTTTTTTAGGCTGAATAGTAT  
TCCATTTTGTGACATTTTCTTTATCCATTCATTTGTTGATGGACGCTTAGGTTGATT  
CATATCTTGGCTATTGTGAATAGTGCTACAATAAACATGGGAGTACAGATAGCTCTTTGA
- 288353 ACTGTAGTCATCATGACATACAATAGGTTTCTTGAACCTATTGCTCCTGTCTAACTGAAA  
TTTTGTGCCCTTTGGCCAGCACTACCTAATCCCTCTGCTAACCACCATTTACTCTCTCTG  
AGTTCAACTTTTTTACACTCCACATATAAGTGAGATCATGGGATATTGAAATTTCTGTGC  
CTGGTTTTATTCACTTTATGTGATGTCCTCCAGGGTCATCCATGTTGTCAAAACATAACA  
GACTTTCCCTCTTTTTTAGGCTGAATAGTATTCATTTTGTGACATTTTCTTTATCC  
[A,G]  
TTCATTTGTTGATGGACGCTTAGGTTGATTTATATCTTGGCTATTGTGAATAGTGCTAC  
AATAAACATGGGAGTACAGATAGCTCTTTGATATACTGATTTCTTTTCTTTTCTTTTGA  
TATATACCCAGCAGTGGGTTTGTAGACTATATAATAGTTATATTTTTTATTTTTTGAGG  
ACCTCTGTGCTGTTTTCTGTAATTGCTTATAGAAATTGACTAGTTGACATTCCCATGTA  
GAAAAAGGGATCCCTTTTTTCTACATCCTTGCCAACCTAATTTTTTATCTTCCAACCTT
- 288504 GAGATCATGGGATATTGAAATTTCTGTGCCTGGTTTTATTTCACTTTATGTGATGTCCTCC  
AGGGTCATCCATGTTGTCAAAACATAACAGACTTTCCCTCTTTTTTAGGCTGAATAGTA  
TTCCATTTTGTGACATTTTCTTTATCCATTCATTTGTTGATGGACGCTTAGGTTGATT  
TCATATCTTGGCTATTGTGAATAGTGCTACAATAAACATGGGAGTACAGATAGCTCTTTG  
ATATACTGATTTCTTTTCTTTTCTTTTAGATATATACCCAGCAGTGGGTTTGCTAGACTA

FIGURE 3FFFFFFFF

- [T,C]  
ATAATAGTTATATTTTTATTTTTTGAGGACCCCTCTGTGCTGTTTTCTGTAATTGCTTAT  
AGAAATTGACTAGTTGACATTCCCATGTAGAAAAAGGATCCCTTTTTTCTACATCCTTG  
CCAACCCTAATTTTTTATCTTCCAACCTAATTTTTTTTTCTGTGGCTAATACAACCTT  
TGGCCTGTCAAATCATGGTAGACATTCTGTGAATAGTATCACTGTAGTAGAAGCCAGAAT  
GTTTTATAGAGGAAATGTAGAACAGAAATTAATCTGGGGAGTCAGATAAATAGAGGTAG
- 288604 TTTTTTAGGCTGAATAGTATTCCATTTTGTGTCACATTTCTTTATCCATTCAATTTGTT  
GATGGACGCTTAGGTTGATTTTCATATCTTGGCTATTGTGAATAGTGCTACAATAAACATG  
GGAGTACAGATAGCTCTTTGATATACTGATTTCCTTTCTTTTCTTTTAGATATATACCA  
CGAGTGGGTTTTGCTAGACTATATAATAGTTATATTTTTTATTTTTTGAGGACCCCTCTGTG  
CTGTTTTCTGTAATTGCTTATAGAAATTGACTAGTTGACATTCCCATGTAGAAAAAGGGA  
[T,C]  
CCCTTTTTTCTACATCCTTGCCAACCCCTAATTTTTTATCTTCCAACCTAATTTTTTTTT  
CCTGTTGGCTAATAACAACCTTTGGCCTGTCAAATCATGGTAGACATTCTGTGAATAGTATC  
ACTGTAGTAGAAGCCAGAATGTTTTATAGAGGAAATGTAGAACAGAAATTAATCTGGGG  
AGTCAGATAAATAGAGGTAGATTAAAAGGATCTTTCATATTAGTGTATTGCATTTTTCT  
CAGTGTCTCAAAGAGTTTGAATGTTGTATACGTTATTTAGAATTGTACTCAGAAGATA
- 289150 TCTCCAAAGAGTTTGAATGTTGTATACGTTATTTAGAATTGTACTCAGAAGATAAAGTA  
TTTTACCAACAACCTGAGCTTAATTTTTATAGTTTATTAGTATCTTCATTTCTAGTCTCC  
GAAGACCATCTTCTCATAAAAGTGCTTATATATGTAAAAGTTTGTGTCATTTTCAACCT  
GTATCCCTTGATACTCATCCAGAAACCTAGGGTGAGAATACCTGTGTTAACTGTTTTTAA  
AAATTTCCATGCATGTTTGGTCAGGGGAGAAGAATGTTCTGTGACAAGTCCAGTTTTA  
[C,T]  
TGGTGAGGTAGAAAAGGCCTTAGAAGGTGCTAGTAAGACAGAAAAAGAACTGTAGGAAGA  
AATCAGTATCGGAGAGCACAGAGATCCTCAATCCTTGGATATATACCACCCAGTGAAGCA  
GATCAGAAAGACCTATATTTTATAGTGCTGTCAACATACAAGCTGGAAGCACCCCTAT  
TATATGTGAATTGGCCACAGCTAAGAGTAAATGATTGAAATCTTTTAAACTTTTAGTTA  
CATTTGTTACAATTTGGGGTAAATGTCTAGATAAGTCATTTAAATTTTTTACCTAACT
- 291331 ATTTAATGGGTATACATCCTGTATAGAATAAAATATTTCTGAATTTTCTTTTCTTTTC  
CAGAATTTTATACATACATGCTCATGGAAACACACACAAGCACACCTCTCTGTGCCCTAA  
CAACAACAAAAATCTTATAAGTTTAGACTTCTTTTGATTAAATCATATGGTTAGTCCCA  
AAACTACAAATATATTTTAAATTAAGTAAAAGAGGACACTCCAACAAACTAGTATTCA  
CTGCACCTCTGAGCATAGCACACATCCTTTCTGAGTTCAGGTGGGTACAATTAGCTGCTA  
[G,C]  
TAAAAATGAACCATTAGTGAAGTCAGTGAATATTAATGTGGGACTTACAAGGCTAGGAA  
TGACAAATAATGGGAAAAAACATTTTGTACTCTAATTTTAAAAAGAACTATTTAGGAGAC  
AGCTGTAGCTGGGGTAGCTTTCTCTTGTAGAGGCATTGCTCCATTGTTGAGGGTTGGTA  
CTGTCTAAAGTTAAACCATTTTCACTGATGCTAGCATGGAACACTTGACAACCAACCTTC  
CAGGTAGGAAATGAGACGTCCTTGCCAGCAAGTCCATATAATACTACAATTTTATGACT
- 291575 ACCTCTGAGCATAGCACACATCCTTTCTGAGTTTCAAGTGGGTACAATTAGCTGCTAGTAA  
AAATGAACCATTAGTGAAGTCAGTGAATATTAATGTGGGACTTACAAGGCTAGGAATGA  
CAAATAATGGGAAAAAACATTTTGTACTCTAATTTTAAAAAGAACTATTTAGGAGACAGC  
TGTAGCTGGGGTAGCTTTCTCTTGTAGAGGCATTGCTCCATTGTTGAGGGTTGGTACTG  
TCTAAAGTTAAACCATTTTCACTGATGCTAGCATGGAACACTTGACAACCAACCTTCCAG  
[G,C]  
TAGGAAATGAGACGTCCTTGCCAGCAAGTCCATATAATACTACAATTTTATGACTAGAC  
TATTTTGCAGAAGTACTTATTGCTTAATTGACATTAACTTAAGTAAGTCTATCTCTTT  
CTCTTAAAAATAATCTTAAATAACAAATAGAAATCTTTAGTATCCCAGTCTAACTCAGTTT  
AGTCTTATTTAGTTTGGGATAAGAAAGTAAATGTATCAGTTATTTTGGCAAATTTATATA  
GAAGCTATGTGGAATAAGCTGTATCTATTTAGATTTTATATAATTTGGTAATTAGCATAC
- 291589 CACACATCCTTTCTGAGTTTCAAGTGGGTACAATTAGCTGCTAGTAAAAATGAACCATTAG  
TGAAGTCAGTGAATATTAATGTGGGACTTACAAGGCTAGGAATGACAAATAATGGGAAA  
AAACATTTTGTACTCTAATTTTAAAAAGAACTATTTAGGAGACAGCTGTAGCTGGGGTAG  
CTTTCTCTTGTAGAGGCATTGCTCCATTGTTGAGGGTTGGTACTGTCTAAAGTTAAACC  
ATTTCACTGATGCTTAGCATGGAACACTTGACAACCAACCTTCCAGGTAGGAAATGAGAC  
[G,T]  
TCCTTGCCAGCAAGTCCATATAATACTACAATTTTATGACTAGACTATTTTGCAGAAG  
TACTTATTGCTTAATTGACATTAACTTAAGTAAGTCTATCTCTTTCTCTTAAAAATAAT  
CTTAATAACAAATAGAAATCTTTAGTATCCCAGTCTAACTCAGTTTATGCTTATTTAGTT  
TGGGATAAGAAAGTAAATGTATCAGTTATTTTGGCAAATTTATAGAAGCTATGTGGAA  
TAAGCTGTATCTATTTAGATTTTATATAATTTGGTAATTAGCATACAATAGCTTACATGA
- 294398 ATATAAAAACTTCAAGTACTCACCTTTTGTCTATAAATCTATTTTTTAAACTTTGTCC  
TAGATAATAAGACAAATAATCCAAGATTGAATCTGCCTTAGAGAGTTGCTTTAAGGATTA  
TTGCATATACACTATATCTACATAACAGAAATGAGAACTATTTAAATGGTGATACATATA

FIGURE 3GGGGGG

10/506549

- TCTGTATGCATTAACATTAAAGAAGTTCATGCATTTATTAAGTGGAAAAGTAGATTACA  
AAACTATAAATAACACAACATTTATGTAAAACATGTATGTTACAATGGTCTGGAAAATT  
[G,A]  
TTCCCCAACTGCTAACAGAGCCATCACGTTTATTATTTTACTTTTTTTTTTTTTTTT  
AAAGAAACAAAGCCTCACTCTGTCAACCCAGGCCAGGCACAGTGGTGAGTCATAGTTCA  
GTGTAGCTTCAGACTCCTAGTCTTTTGCTCAGCCTTCTGAGTAGCTGGGACTGCAGGTG  
CACACCCTTTGCTTGCCAGTTTTTCAAATTTTTTTGTAGAGGTGGGGAAGTGAGG  
GGCTCACTTTGTGCCCAGACTGGTCTCATGTCTCCTGGCTCAAGTGGTCTCCACCT
- 298090 CATGCCACCATGCCAGCTAATTTTTTGTATTTTAGTAGAGACGGGTTTACCATGTT  
GGCCGGGATGGTCTCGATCTCTTGACCTTGTGGTCCACCTGCCTCGGCTCCCAAGGTGC  
TGGGATTACAGGCGTGAGCCACTGCACCCGGCAGAAAATCTTAAATCTATACTATAGAGT  
CTGACAGAATTTGGGACCCAAAAGCAATATAATTCTATTACATATTTATCTTAACAAGT  
AACATTTTAAAAGTCCATGTAATTTATAGATTTATTTGCTTTCTCTAACAAGTAATGCTT  
[C,T]  
TAATAAAAACTGGGCTGGTGGGTGGCTCATGCTGTTATCCAGCATTTTGGGAGGC  
TGAGGTGGACGCATCAAGATCAGGAGTTCCAGACCAGCCTGGCCGATGTGGTGAAACC  
CTGCCTCTACTAAAAATAGAAAAAAATTAGCTGGGTGTGGTGGTGACGCCCTGTAATC  
CCAGCTGCTTGGGAGGCTGAGACAAAGGAAGTCTAGAACCAGGAGGAGGGGTTGCAG  
TGAGCTGAGATGGCAGCACTGCACTCCAGCCTAGGCAACAGAGCAAGACTCCAACCTCAA
- 299714 AATGGCCAGGCACAGTGGCTCACACTTGTAACTCTAGCACTTTGGGAGACCGAGGTGAGC  
AGATCACCTGAAGTCAGGAGTTGAGACCCAGCCTGGCCAACATGGTGAAACCCCGTCTCT  
ACTAAAAATACAAAAAATAGACAGGCATAGTGCCACGTGCTTGTAAATCCAGCTACTC  
AGGAGGCTGAGGCAGGAGAATCATTTGAACCCGGGAGGCGGAGGTTCAGTGAGCCAAAA  
TTGCGCCACTGCATTCCAGCCTGAGCAACAAGAACAAAACTCCATCTCAAAAAA  
[G,A]  
TAAATATATTTGTAGCTCATACTATATTTCTTTGAACAACACTGATCTAAAGTGCTA  
TGTTTTTCATTGTCCTTTAAATGGATTATGATGTAATTAGACTAGAGATCTCATGGGTT  
TTAGAACTAAAAATGTTCTGGGTCAGATGTGGCTTCTGGCTTTACTTATTTGTATTTCT  
GGCCTCAGTTGTACCCGAAAAATAATTTTGTGTGAAATACAGTTTGTCTGAGCTAATA  
GAGGAACATGATTTACCTTCAATTTCTGGAGAGCTAGTAAATAATTTAGAACACTATGTC
- 306438 TTCTTTCCATGTTTAGTCCAGCACCATTTATTAAGAGGAAAAATCTTAAAGCAACTG  
GAGAAAAAAGATAAGATACAGATTAATAAGGTAATAATTTCTTATTCCTATAGAAG  
CCATGCAAAGCAGAACACAAGGAAATGACATATTTCAAGTGCTAAGTGGATGAATCTCAG  
TCAGATTATTCGGAATACTAATAGCGTTTCAATTTATTTAGTACATATTGTAAACCAGAAAT  
TATGCTGATTATTTAATATGCATTATCTCATTTAATCCTTACAGCAACCCGGAGAGGCA  
[A,G]  
CTAGAATTAACACATTTTAGAGGTGAAGAAAAATGAGGCTAAGAGAAGCCAAGGGACTTGG  
CTAATAAATGTTACACACTTAGCAAAATGGAAAAATTCAGGATTTCAAACCAGATATGATTA  
ACATAAGCCATGTCTCCTCTTACTATTAACCATAACTGGTAGAACATATACATAACTTAA  
ATTTGATAGGTAAAGCTGATTGAGGCTATTTGTTGTGGTACGAATGTTTGAAAAATGCTG  
TCAGTCAGCAAGTATTTATCAAGCACATTAGATATTCCAGGCTGGAATGGAATGGAATC
- 306579 GAAATGACATATTTCAAGTGCTAAGTGGATGAATCTCAGTCAGATTATTCGGAATACTAA  
TAGCGTTCATTTATTTAGTACATATTTGTAACCAGAAATTATGCTGATTATTTAATATG  
CATTATCTCATTTAATCCTTACAGCAACCCGGAGAGGCAACTAGAATTAACACATTTTAG  
AGGTGAAGAAAATGAGGCTAAGAGAAGCCAAGGGACTTGGCTAATAAATGTTACACACTT  
AGCAAAATGGAATAATTCAGGATTTCAAACCAGATATGATTACATAAGCCATGTCTCCTCT  
[T,C]  
ACTATTAACCATAACTGGTAGAACATATACATAACTTAAATTTGATAGGTAAGCTGATTG  
GAGGCTATTTGTTGTGGTACGAATGTTTGAAAAATGCTGTGAGTCAGCAAGTATTTATCA  
AGCACATTAGATATTTCCAGGCTGGAATGGAATGGAATCATGAACAATACAAGTATGGTT  
CTTTATCCTTATGAGCTTATAAATGTCTAAGGAAAAAGAAATGTGGTAATTTCTAGGTA  
TCTGAGGATGGTTCTAAGGATTAATGTATATTTAAAAAACCAGCACAAATTTCTGGCA
- 310153 CTGCACTAGACTTGGCTCAATGCAGGTTGCCACAATTTACAATATAATACATTGTATTAT  
AAAAATACAATATCTGCAGAGCCAGTAAAGCATAGTGCAATAAAATGAGGTGTGCTTG  
TATTTATAGATGATATCTAAAGTCAAAGAAATGGGTGGAACAGTGAAGACGAAGAAAAAGA  
AGAAAGTTAAGTATAAGCTCTGAGGCACTTCAACTTTTAAATTTAGCCAGAGGGGGAGGA  
GCCAGCAAGTAACAATGCATGAATAGGAATATCTAGAGAAATAAGAGGTATAATGTGGAG  
[T,C]  
GTCAGAAGCCAAAAGCGAAGTGTGTTAAGAACAAAAGTGTAGTTTCTCTTTTCCAAATCCT  
GCTGAAAATTAGGCAAGATACAGACAGAAAAAGGCATTTCTTAAATTTTAAACAACCTGG  
AATTCATTATGATTTTAAACAAGAAATCATTTTGGTGGAGTGAGAGGGACAGATTTGAGTC  
AGCTGAGAAAAGTGTGACAAATGAGGAACAGAGACAGAGCTTAAACAATTTCTTTAGCTA  
TGAGTGTGGAAGAAAGAGATTGGGCAATAGCTAAGACAGGATAATGTGTTGAACGAGGGT
- 310189 TTACAATATAATACATTGTATTATAAAAAATACAATATCTGCAGAGCCAGTAAAGCATA

FIGURE 3HHHHHH

10/506549

- GTGCAATAAAATGAGGTGTGCTTGTATTTATAGATGATATCTAAAGTCAAAGAATGGGTG  
GAACAGTGAAGACGAAGAAAAAGAAGAAAGTTAAGTATAAGCTCTGAGGCACCTCAACTT  
TTAAATTTAGCCAGAGGGGAGGAGCCAGCAAGTAACAATGCATGAATAGGAATATCTAG  
AGAAATAAGAGGTATAATGTGGAGTGTGAGAAGCCAAAGCGAAGTGTGTTAAGAACAA  
[A,G]  
GTGTAGTTTCATCTTTTCCAATCCTGCTGAAAATTAGGGCAAGATACAGACAGAAAAGGCA  
TTTCTTAAAAATTTTAAACACCTGGAATTCATTCATGATTTTAAACAAGATCATTTTGGTG  
GAGTGAGAGGGACAGATTTGAGTCAGCTGAGAAAAGTGTGACAAATGAGGAACCAGAGAC  
AGAGCTTAAACAATTTCTTAGCTATGAGTGTGGAAGAAAGAGATTGGGCAATAGCTAAGA  
CAGGATAATGTGTTGAACGAGGGTTTTTAGTAGGCAGGAGATATCTGATGGAAGAGCA
- 310283 TGATATCTAAAGTCAAAGAATGGGTGGAACAGTGAAGACGAAGAAAAAGAAGAAAGTTAA  
GTATAAGCTCTGAGGCACCTCAACTTTTAAATTTAGCCAGAGGGGAGGAGCCAGCAAGT  
AACATGTCATGAATAGGAATATCTAGAGAAATAAGAGGTATAATGTGGAGTGTGAGAAGC  
CAAAAGCGAAGTGTGTTAAGAACAAAAGTGTAGTTTCATCTTTTCCAATCCTGCTGAAAAT  
TAGGCAAGATACAGACAGAAAAGGCATTTCTTAAAAATTTAAACACCTGGAATTCATTC  
[A,G]  
TGATTTTAAACAAGATCATTTTGGTGGAGTGAGAGGGACAGATTTGAGTCAGCTGAGAAA  
AGTGTGACAAATGAGGAACCAGAGACAGAGCTTAAACAATTTCTTAGCTATGAGTGTGGA  
AGAAAGAGATTGGCAATAGCTAAGACAGGATAATGTGTTGAACGAGGGTTTTTAGTAGG  
CAGGAGATATCTGATGGAAGAGCAAAATAGAGAACTTGAAGATACTGCATTGGGGGATG  
ATTGCAGTGCAATGTTATGTCGTGGCAGAAATGAGGTGGGATTGGGAGAGATTGCTCTTAG
- 311696 TAAATAGCTCCCTGTTGCTGGAAGGAAGGCCTCTTTATTTCTTTCTACATTTTGGAC  
AATAATAAATGAGTTCTGCATTTTCATACATGGGTGTATGTTGTGTTGTGTTGTGTA  
TAATGCAGAAATCCATTTGCAGTGTATGTATACATATACCTCAGTATATGTAAATA  
TATGTGAAAATACTTTCCAAGACTTTAAGCATAGAATCTCTTCTCATAAGCCAGCCAGG  
CACATCTTACTCAACAATTCAGCAAAACCTTTGGATCTGTCAGAAACAGCTTATAGGTC  
[G,T]  
GCATTAGGTGATTAATTGCCAGGAGAATCTGGTTCATATTTTGTACATATAATTATTT  
TCTTTTCTAAAGGTGTTCTTTTATTAAGCTCCACCATAAAAGAGGGGAAAAATAAGCACA  
CGTCTTACATGCCGTGATGTTTAGCACTTCTTACAAAAGAAAGAGGAAAACTTTAACATAA  
TCCACTGATAAAAGCATATTTGTCTTGGCTTCAGACAGTTTTCTCCTCATTTTACCAAA  
ACTTTAATAATATTTTAACTTGCTTAGAAATTAGTCTTGGGATAGCAGTATGGAATAATG
- 315318 TGGTGGGACAGATTGTAGTTTGCCAAACCTACAGAGGGGGTACAGTCCCTGCCATGTG  
CCTCAAAGGTGCTGTTAGACTGTGTTCTAAACCTGAGATGTTTCTAGTTGTTTGAAGTAA  
AGGTGGAAAACTACCATATTAATAATCAATTACGGGCTGGGCATGATGGCTATAATCCCA  
GCATTTTGGGAGGAGATCATAGTGACCCCACTTGAGGCCAGGAGTTCAAGACCAGCCTGG  
CCAACATGGTGAACCTGTGCTCTACTAAAAGTACAAAAATTAGCCAGGTGTGGTGGTGC  
[A,C]  
TGCCTGTAATCACAACTACTTTGGGAGGTTGAGGCATGAGAATCGCTTGAACCTAGGAGGT  
GGAGTTTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGTGAAAC  
CTTGTCTCAAAAAAAAAAAAAAAAAAAAAAGGAGTTCCATTCCAAGAGGGCCAAATAGG  
AACAGCTCTGGTCTGCAGCTCCAGCATGATCGACACAGAAGATGGGTGATTTCTGCGTT  
TCCAACCTGGGGTGACTAGTTTCATCTCATTTGGGACTGGTTGGACAGTGGGTGCAGCCACG
- 315383 AAGGTGCTGTTAGACTGTGTTCTAAACCTGAGATGTTTCTAGTTGTTTGAAGTAAAGGTG  
GAAAACTACCATATTAATAATCAATTACGGGCTGGGCATGATGGCTATAATCCAGCACT  
TTGGGAGGAGATCATAGTGACGCCACTTGAGGCCAGGAGTTCAAGACCAGCCTGGCCAAC  
ATGGTGAAACTGTGCTCTACTAAAAGTACAAAAATTAGCCAGGTGTGGTGGTGCATGCC  
TGTAATCACAATACTTGGGAGGTTGAGGCATGAGAATCGCTTGAACCTAGGAGGTGGAG  
[T,G]  
TTGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGCGACAGAGTGAAACCTTGT  
CTCAAAAAAAAAAAAAAAAAAAAAAGGAGTTCCATTCCAAGAGGGCCAAATAGGAAACAG  
CTCTGGTCTGCAGCTCCAGCATGATCGACACAGAAGATGGGTGATTTCTGCGTTTCCAA  
CTGGGGTGACTAGTTTCATCTCATTTGGGACTGGTTGGACAGTGGGTGCAGCCACCGAGAG  
TGAACCTGAAATAGGTTGGGCATTGCTCACCAGGAAGTGAAGGGGTTGTGGGATTTCT
- 322289 GAGAAAGAAAACGCAAGGCAAGAAAAAGGATAAAACAGCCCTGCTGCACTCTGGTGGGAC  
TGATAAGAAATAGCTTCTGTATCTTGGTATTTTGTACCTTAAAAAAAATTGAGGAGTGGC  
AGGAATAGAAAACAGAAACAATGTCTCTTTGGGGTGAGAGACAGAAACAGCTGTTCTCTC  
TCAGAGGATGTGGAACATTTGATGACCTCTGCAAGTGCAGGCAGGCAGTATCCACAGCTC  
TGCACTACCACCTGGGCGTACCACCTGTGCAACCCATCAGTCTGTGGTGGCCGTTCAAGT  
[C,T]  
ACATTGTATAAAATCTGTCTACGGCATCTGTATCCTCACCATCTAATAACTTTAGCACAG  
AATATTGTTTAAAGATGATGGAGAGGGAAAAAGAAGACTTTGAGTCAACAAAACCTTTGTT  
TGTTTACATTTACCATATCATCCATTTCTTTGTAGTATATATCAGAAGACTTTTATTTTAG  
GTTTTTAAAAATCGTTTATATGTAATGAGTTAAAAACCTTAGTTATCCAGAAACATATTC  
TGAGCAACATGTTTTTGGTACCACCTGCTGTCTTATATATTTCTTGTCTGCATGCTTCTG

FIGURE 3IIIII

- 323572 ATACTGTTTTGACTTGTAAAAAGACTCTTTAATAGAAATGGACAAAGAAAATATGCTAAT  
AAAATAACTTAAGTATGTGTATGTGTGTCATGCTAAATTTTTTTTCTTCTGTCTCTT  
CATTTTGTGCTCATCATCAATTGCTGCTATTTACTGTGGTGCATTTTCTGAAACACCTG  
CTGTCAAATGCATCAAGTCTTTCTTGCACAGTGCTACAGGTTTTGCGAACTGAGCAA  
GCCCAACATTAGACAGATAGCCTAAAGACTGATTGATTTATTTGTTTTAATACAAATATA  
[T,C]  
GCTCACATGTTGACATACAGAAATCTGTTTCAAATGAATTATTTTTAAAGAACAAGAA  
CTTTATAACCCCTAGTACCTAATCCTATGCTGACACATAGTAGATACTCAGCAAATATCT  
GTGGGACTGAACTGCTCTGTGAAGCCTAGCTAAGCACTAAAGACTCCCACTTTTTC  
GCTTTATGGGGAAGTGATTATCTTAAATAGTTTTAATGCAAATTGAATTATGTTTTAAA  
AGCATGTCCACCAAGTTGAAAAGTCAAGTCATGGAACATTGTTAAGATCCAGGTTTTAATT
- 324052 AGCTTTATGGGGAAGTGATTATCTTAAATAGTTTTAATGCAAATTGAATTATGTTTTAAA  
AAGCATGTCCACCAAGTTGAAAAGTCAAGTCATGGAACATTGTTAAGATCCAGGTTTTAAT  
TTAGCAGATATTGTTCTCTTTCAGAAATAATTACGAATCTATTTAAAATAAATGCTTTTT  
TATCTTTATCTCCCTTTCACAATGGAGTGGCATTGTCAAAGGGGAAAGTGCTAATAA  
TAAGTTGAAAACATTGTGCAGTTATACTTCAAAGACATCTCTTAAATTGTCTGTTCAGG  
[T,A]  
TCACTGCCTCTGCTATTATTTCATGTTCTAATTTAGGGCCTCGAAATTGTATTAGTTGCCT  
AAGTGAAGTTGCACCTCGTTCTGTGCTCTTCCACACTGCTGCCAGAACTATTTACTT  
TCTTCAACAGAAAATCAAGCCTGTCTCTTCTCCTATTAAAAACCTGCAATTGTCTACGGA  
CTGTGAGATAAGGACCAAACTCCTTGGCATTACATACCATATGTAATGTAATTATACCTG  
TGGATTTTTTTCTCAATCTACCTTCATGTCCCATGTTTCTAAGCATCCTCTACCAGTG
- 326324 CCCCCAAGCTTAATTAGCAAAATAATATAATGCAGACTGCTCCTTGCATAGGCTCTCATGG  
ATTTTACATACTACTGCTTATTTTATTAGTCTCTAAAGTCATTCTTCTCCCAAGTGTAATT  
ACACTTTTAAAAATTAATAATGCATAAGAGATATTATGAAATCGTATTCCTGGAACAT  
TGAGAAATTTCAAGCTTTAAAAGACAGCAGCTAAAGTCAAAGATACAGCAACATTTTCAA  
AGTTAGCTTTGTACATCTCTTGGCTGAGTAATGTGAACCCACACATGGAAGATTTAATA  
[G,T]  
ATACAGGAATGTTCTGGGCTCTGTAAAGAGCTGATCCCTCTATCAGGTTTCTGTGCAGAC  
AAGCATGTTTCTTCTATCTATTAGGAAAGGGTATGAATTGAGCATTTTCAGAGGCTATGG  
TAAGAAGCAGGAGAGAGAGGGGGCAAGTAGAGAAATTGCTAAATATCAATTTCTTTTAAAT  
ATTGAGATTTAGAAATAAAAAATCAAGAACTGTGATTTTGACTTGACTTTTCAATCTATTA  
TTCTAACCTCGTAGCTCATTTGTTCCATTTATTCAAAGAACATTAACATCTGCCATATATT
- 327037 CATACATGCCATATGCCAAACACTGAGCTAAGCACATTATATCAATATAGATATAAAAAAC  
ACCTGCTGATTTGTCCAAACACACAGCTAATAAGTTTTTGAGCTAGAATTTTCTCCAGC  
TAAGCTGATTTCTTTGCCCTCACTTTTAACCTTGTATGCCAAATTACAAGTTTAAATTC  
ATTTATGTACTTGAAGAGTCATAGAAGTTTCAATAAAAGAGAAGACTTTTAAGCTGAGA  
CTTGAACAAGAAGTGGAGCTTCCCTGATAGACAAAGAGATAAAATGTCATTCTGAGCAGA  
[T,G]  
GGAGAAATATGTGCGAAAACAGGGAGGCAGAAAGCAGCGTGGTGAGTTTTACTAACTGGG  
TGTTTAGGTGCTCCTAAGCAAGTCCAAGTTCAAGTATAGCATTTCAAGTTTCTATGATTT  
TAGTGTAACCTCTATCTTATCTACAGCTCCTTTTCTTTTCTCACAGGGTGAGAAATGCTA  
TACTTGAACTTGGACTTTTCTTTGATGTGCAATTAAATGATTAGAAAATAGGAAGTTA  
AGGTATTTGCAGTTAAATGATCACGTTAGCCATGATGTAGATAAAGCAAGGAAAAAGAA
- 327038 ATACATGCCATATGCCAAACACTGAGCTAAGCACATTATATCAATATAGATATAAAAAACA  
CCTGCTGATTTGTCCAAACACACAGCTAATAAGTTTTTGAGCTAGAATTTTCTCCAGCT  
AAGCTGATTTCTTTGCCCTCACTTTTAACCTTGTATGCCAAATTACAAGTTTAAATTC  
TTTATGTACTTGAAGAGTCATAGAAGTTTCAATAAAAGAGAAGACTTTTAAGCTGAGAC  
TTGAACAAGAAGTGGAGCTTCCCTGATAGACAAAGAGATAAAATGTCATTCTGAGCAGAG  
[T,G]  
GAGAAATATGTGCGAAAACAGGGAGGCAGAAAGCAGCGTGGTGAGTTTTACTAACTGGG  
GTTTAGGTGCTCCTAAGCAAGTCCAAGTTCAAGTATAGCATTTCAAGTTTCTATGATTTT  
AGTGTAACCTCTATCTTATCTACAGCTCCTTTTCTTTTCTCACAGGGTGAGAAATGCTAT  
ACTTGAACCTTGGACTTTTCTTTGATGTGCAATTAAATGATTAGAAAATAGGAAGTTAA  
GGTATTTGCAGTTAAATGATCACGTTAGCCATGATGTAGATAAAGCAAGGAAAAAGAA
- 327295 CTTCCCTGATAGACAAAGAGATAAAATGTCATTCTGAGCAGAGGGAGAAATATGTGCGAA  
AACAGGGAGGCAGAAAGCAGCGTGGTGAGTTTTACTAACTGGGTTTtaggtgctcctaa  
GCAAGTCCAAGTTCAAGTATAGCATTTCAAGTTTCTATGATTTTtagtgtaactcctatct  
TATCTACAGCTCCTTTTCTTTTCTCACAGGGTGAGAAATGCTATACTTGAACCTTGGACTT  
TTTTCTTTGATGTGCAATTAAATGATTAGAAAATAGGAAGTTAAGGTATTTGCAGTTAAA  
[A,G]  
TGATCACGTTAGCCATGATGTAGATAAAGCAAGGAAAAAGGAAAGAAATAAGACTGCA  
GGCAGAAAAACAACCTAGCACAGCAGTTATGATATTCTAGACAAATGATTGTGTTGGCTTG  
ATATCACTGAGTAAACATTTATTGGGTGCCCTTATATGTGCCATAGCTGAGCTTACAGTGT

FIGURE 3JJJJJJ



- TGAATAAAATGAATATGATTCTCTGCCATTACATACAGTCTACAATCTGTTGGGAAAGACA  
GACAGTAAACAAACACACAAATACACAAATAAAGAAGATGGGTAGAAGTGACAGTTTAA
- 328248 TTAGATTTGAGCATTGTATAGAACATGAACTATAAGTGTGAATTTTCAAGATTTATAAA  
AAAGAAAAGGCAGCCTTATAATTGTGGTATAAGGTTTATAGTTAAGACTCCTTCATGTG  
AAATACCAGATGTTTGTAGTCTTGATATAAAGGTGAGAAGAAAAGAGGATATTGGTTT  
CATAATAAATTAAACATGTTTACAGTAATGACTATGCAGTGAAGCTGTGGATATTTTGT  
ATATAAGAATGGCAGGGGCTCTAGAACTGGGGCTGGAAGGCCCATTTAAAGGTCATC  
[T, C]  
AATACGATAATTTTAGTCTGGAGCACACAAGCAGAGTTCAGGTGAAGTCCCTGGAATTA  
TTTGCAAAATTGGGAGTATTTTCGTATGTATAGTTTGAGGGGAATTTCTGTCAAATGCA  
CATAGGCACCTGTAAATTAAGAGCCGCTTCATTTTACACATGAGGAACTGAGGCTGT  
TACAGATGTAGAGACTTGCCCAAGGCTTGAATAACTTCTCAGAAAGGGAGTTTGTCTTA  
TGATTTGTGTTTTTAATAAAGTTTTAATGGACAGACCAGATATCCAACATGGCCTTG
- 328332 TGGTATAAGGTTTATAGTTAAGACTCCTTCATGTGAAATACCAGATGTTTGTAGTCTT  
GATATAAAGGTGAGAAGAAAAGAGGATATTGGTTTATAATAAATTAAACATGTTTACAG  
TAATGACTATGCAGTGTAACTGTGGATATTTGTATATAAGAATGGCAGGGGGTCTTA  
GAACTGGGGCTGGAAGGCCCATTTAAAGGTCATCTAATACGATAATTTTAGTCTGGA  
GCACACAAGCAGAGTTCAGGTGAAGTCCCTGGAATTTATTTGCAAAATTGGGAGTATTTT  
[C, T]  
GTATGTATAGTTTGTAGGGGAATTTCTGTCAAATGCACATAGGCACCTGTAATTAAGAGC  
CGCCTTCATTTTACACATGAGGAACTGAGGCTGTACAGATGTAGAGACTTGCCCAAG  
GTCTTGAATAACTTCTCAGAAAGGGAGTTTGTCTATGATTTGTGTTTTTAATAAAGTT  
TTAATGGACAGACCAGATATCCAACATGGCCTTGAGCCATAGGGTTCAGAATATTAGAA  
AGCCTTGGCTTCTTTTTCATTTGAGTTGTCTATAGTGATTTTAATAATAATAGAACATG  
CTATTATTAGAAATACATTTCTCCACCTAATATCCCAAAACAGTATTTTAAAGAAATT  
CTAGGAAGGGTGTCTACTATTAGAGTTCTACAGGAAGGAAGGCTCTTCTACTATTTT
- 328453 AATGACTATGCAGTGTAACTGTGGATATTTGTATATAAGAATGGCAGGGGGTCTAG  
AACTGGGGGCTGGAAGGCCCATTTAAAGGTCATCTAATACGATAATTTTAGTCTGGAG  
CACACAAGCAGAGTTTCAAGTGAAGTCCCTGGAATTTATTTGCAAAATTGGGAGTATTTT  
GTATGTATAGTTTGTAGGGGAATTTCTGTCAAATGCACATAGGCACCTGTAATTAAGAGC  
CGCCTTCATTTTACACATGAGGAACTGAGGCTGTACAGATGTAGAGACTTGCCCAAG  
[G, T]  
TCTTGAATAACTTCTCAGAAAGGGAGTTTGTCTATGATTTGTGTTTTTAATAAAGTTT  
TAATGGACAGACCAGATATCCAACATGGCCTTGAGCCATAGGGTTCAGAATATTAGAA  
AGCCTTGGCTTCTTTTTCATTTGAGTTGTCTATAGTGATTTTAATAATAATAGAACATG  
CTATTATTAGAAATACATTTCTCCACCTAATATCCCAAAACAGTATTTTAAAGAAATT  
CTAGGAAGGGTGTCTACTATTAGAGTTCTACAGGAAGGAAGGCTCTTCTACTATTTT
- 328464 AGTGTAACTGTGGATATTTGTATATAAGAATGGCAGGGGGTCTAGAACTGGGGCT  
GGAAGGCCCATTTAAAGGTCATCTAATACGATAATTTTAGTCTGGAGCACACAAGCAG  
AGTTCAAGGTGAAGTCCCTGGAATTTATTTGCAAAATTGGGAGTATTTTGTATGTATAGT  
TTGAGGGGAATTTCTGTCAAATGCACATAGGCACCTGTAATTAAGAGCCGCTTCATTT  
TCACACATGAGGAACTGAGGCTGTACAGATGTAGAGACTTGCCCAAGGCTTGAATAA  
[G, C]  
TTCTCAGAAAGGGAGTTTGTCTATGATTTGTGTTTTTAATAAAGTTTAAATGGACAGA  
CCAGATATCCAACATGGCCTTGAGCCATAGGGTTCAGAATATTAGAAAGCCTTGGCTT  
CTTTTTCATTTGAGTTGTCTATAGTGATTTTAATAATAATAGAACATGCTATTATTAG  
AATACATTTCTCCACCTAATATCCCAAAACAGTATTTTAAAGAAATTCTAGGAAGGGT  
GTTTACTCATTAGAGTTCTACAGGAAGGAAGGCTCTTCTACTATTTTAAAGCATAA
- 328968 CCAAAACAGTATTTTAAAGAAATTCTAGGAAGGGTGTCTACTCATTAGAGTTCTACA  
GGAAGGAAGGCTCTTCTACTATTTTAAAGCATAACTTTCACTGACAAGACCAGGCCA  
GAAAAAGCCTAGCTGGCTGTGGCCAGACAATGTTATAATAATCATTGAAGTATACTCA  
ACCTGCACTGCCTGAGGATAGCTACAGCTAAAAAAATAAATAAAGCACACAGAT  
GTATGCTGAGTGTCCAGTGACTTAGCTGACATGTATGCTGTATATCCTTTGCTGTGTT  
[C, T]  
TTCAACTATTAGAAAGGAAATTTTAAATAGCCTAGAATTTATTATCCAATAGGGTGAA  
AAGGACAACCTTCAACTTTAAAAAATAACCAAGCTCTCCAAGGCTGTATCCCCAGCAAGT  
AAATCAATCTGGCATATAGTAGATGCTTAATAATTTTGTATGAGAGAATTTGTGAAGT  
TTGTTAGTTATTTTCAAGAAAGAGAATTTGTTGTTTCATCAATAATGAGTATCATGTAG  
TGTCAAAATAGTAAAAATTAAGGAGTCTTCAACATTTAGAAACCCAGATTTACAGCG
- 329579 AAGTTATTGTACGACCTTGGGCTCATTTCTTTGTCTTAATAAGGATATAATAATATCT  
AATCCCAAAATTTGGGGGAATTTAAATGAGCTACAGTATGTGAAAGATGCTTCATAGA  
TCCTTAAGTGCTATATAAATATTAAATGTTATTTGTCTTAGATAACATTTTCAATTTTFA  
AATATGTATTTACTGAAATCATCTTTATTTCTAAGTCTGTATTTGTTTTAGGTAGAAA  
GAAGTGATTTCCATGATTGAAATGGAGTTTGAATTTCTTTGATAAAATACATTTTAAGGT  
[A, G]  
TACAGAAATTGTCTGCAAGAAATTAAGCACTCATTTTAAAGCAAGGGAAATATATTTATT

FIGURE 3KKKKKK

10/506549

- TTATGATTTTCCTAATTGAATTTTGGCAGCTAATTTGTACGTAAGTTAAGGATTGATTG  
ATATATATTTGATAGACAATCACCTCTTCTAGGTATTATAACATATACAAAAAGTATAC  
AACAGCATTTTCCAAAGTGAAAAGAAATATTAGTTTTGTAGATGTTCCATGATTAGAGT  
TTGGGAATTTAAAAAGAAATTTTACATACTACCATAGGTTTCTCCTAGATATTTTATT
- 331838 ATGATGTGGTGGGTTTAACTTCTTAAAGAAGCTGACAAATAGCTTTCCAAAGTGGTTGTTT  
TATTTTATATTCCCATTAAACAGTGTATGTAATTTCTAGTTGCTCCATGTCTTGATCGGT  
CTTTGGTATTGTAGTGTCTTAAATTTTCATCATTTCTATAATGTAATGGTATCTCATTTG  
TGGCTTAAATTTGCATTGATCTGATAACTAATGATGTTAAGTATCTTTTACATACTTAC  
CTACAAAGGAAGCTGTGTGGTTAGCAAGTATGTTCAAATTTTAGTCCAGTTACTTTGG  
[A,G]  
TTATTTTCTTATTATTGAATTATGAGGATCTTTATATATTTTGGATACAAGCCCTTTGC  
AAATATGCATATTGTGAATATTTTATCCAGTCTGTGACCTGTCTTTTCGTTTTCTTAAA  
GGTACCTTTTGAAGAGAAATTTGTTTTGATTTTGTAAAGACCAGTTTGTCCATGTTTT  
TCTTTTATACTTCTAGAAGTTTATAGTTTTAGCTCATAAATTTCAAGTTTATTTTTCAG  
TATGGTGTGAGGTAAGGTCATGTTTCTTTTTCATATGGATTCTAGTATTACAGT
- 332042 TAACTAATGATGTTAAGTATCTTTTACATACTTACCTCACAAAGGAAGCTGTGTGGTTA  
GCAAGTATGTTCAAATTTTAGTCCAGTTACTTTGGATTATTTCTTATTATTGAATTAT  
GAGGATTTCTTTATATATTTTGGATACAAGCCCTTTGCAAAATATGCATATTGTGAATATT  
TATCCAGTCTGTGACCTGTCTTTTCGTTTTCTTAAAGGTACCTTTTGAAGAGAAATTTT  
GTTTTGATTTTGTAAAGACCAGTTGTCCATGTTTTCTTTTATACTTCTAGAAGTTTT  
[A,G]  
TAGTTTTAGCTCATAAATTTCAAGTTTATTTTTCAGTATGGTGTGAGGTAAGGGTCAATG  
TTCATTTTTTTCATATGGATTTCTAGTATTACAGTACCATTTCTTAAAGATAATTTCTTT  
TTTGAGTGCCTTAAATCAGTATGGACTTCTTTTCTATTTTATTTATCCGTATCTTTA  
TCCTCTAGATACTCTCACACTATCTGTCTTTTAGCATTTATAAGTTTTGAAGTCAAGTA  
GTGAAATTTTCCAATTTGTCTTTTAGAAGTTGCTAAAAGTTGCCACATTTGCCTCTG
- 332058 GTATCTTTTACATACTTACCTCACAAAGGAAGCTGTGTGGTTAGCAAGTATGTTCAAAT  
TTTTAGTCCAGTTACTTTGGATTATTTCTTATTATTGAATTATGAGGATCTTTATATA  
TTTTGGATACAAGCCCTTTGCAAAATATGCATATTGTGAATATTTTATCCAGTCTGTGAC  
CTGTCTTTTCGTTTTCTTAAAGGTACCTTTTGAAGAGAAATTTGTTTTGATTTTGTAA  
AGACCAGTTTGTCCATGTTTTCTTTTATACTTCTAGAAGTTTATAGTTTTAGCTCATA  
[A,C]  
ATTTCAAGTTTATTTTTTCAGTATGGTGTGAGGTAAGGGTCAATGTTTCTTTTTCATAT  
GGATTTCTAGTATTACAGTACCATTTCTTAAAGATAATTTCTTTTGTAGTGCCTTAAAA  
TCAGTATGGACTTCTTTTCTATTTTATTTATCCGTATCTTTATCCTCTAGATACTCTC  
ACACTATCTTGTCTTTTAGCATTTATAAGTTTTGAAGTCAAGTAGTGTAATTTTCCAA  
TTTGTCTTTTAGAAGTTGCTAAAAGTTGCCACATTTGCCTCTGTAGATACACACAGAGA
- 333419 GGCCAAACATGGTGAAACCCCGTCTCTACTAAAAATTAGCCAGGTGTGGTGGCATGTGCCT  
GTAGTCCCAGCCACTAGGAGGCTGAGGCAGGAGAATCTTGCAAGTGAAGTGAAGTGAAGT  
CACTGCACTCCAGCCTGGGTGGCAGAGTGAGACTCTGTCTCAAAAAGAAAAAAGAAAAA  
CACCAAGTGCTGGGATTATAGGCGTGAGCCACCATACCTGTCTTAAACCATATTTTAGT  
AGTTATTTAAGGAAGTTACAAAAAATTCCTTTTGATATAATGAGTGCAAATTTATTG  
[A,G]  
CATTTTTGAAAAGAGAATAGTCATCTTTTATTACCTGATAATTGCTGAGAAGGGCAAAC  
CTCCCATAGTACTGCTTTCTTTTTTTTTTTTTTTTTTTTTTTTGTAGACAGAGACCTC  
CTGCTCCACCCACCTCAGCATCCCAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCC  
AGCCTTCTATTTTCAAAGTACTCTTGACATTGTTTGTATCGGTGACATAGATTATGGAA  
TCTCTGGTACTTGTTTTATTACCAATTACGAATAATAGTGGATTGTTCTGTGAAATTTCA
- 336143 AAAATTCATCTTTCCTCAAATTATATTTTGTGTTCCATAATGCTTGGATTGGGGAGGG  
CATCCCATTTGGTCTCTATTATAATTAGTATATTATACAACCTCATAGAAATTTTGCT  
AACAGCTACATCTTAGTAGTTCTGTGGTTCTAATTAGATGAGGCAGGTTGTTCCCTG  
TTGAGGGTTTTGTTTTGTTTTGTTTTGGTCTGAATAGGTAGGCAGTTACACAGTTGTT  
TTAGGAAAAATTATTTCTTTAAAGTCTTAAAGTTAATAAACAGGAGATTAGGAGAC  
[T,G]  
TTAATTAATGCTTAAGATAAAAGGTTTTCTTTCTCTCTCTGTTTCTCTGTTCTTACAC  
AGAACCCTTCTACATGGTGTGTTTAAACAAGCACTTGATAAACTGTGGGAAAAAAGATT  
TTTAAATTAGATTTAGGAAAAATAGACTTCAGTTCTCATTTGTTACAAGAGGAGCCCTCT  
AACTCCCTGCTGTAGACACAGCCATTTTCTCAGAGTTGGAGTGTCTTTTGGCCACTTTG  
GGTATAAAAAATGAAACTACTATCAATTTATTGTCTCACAAGAGAATAGTATATTATATT
- 336148 TCTATCTTTCCTCAAATTATATTTTGTGTTCCATAATGCTTGGATTGGGGAGGGCATCC  
CATTTGTGGTCTCTATTATAATTAGTATATTATACAACCTCATAGAAATTTTGCTAACAG  
CTACATCTTAGTAGTTCTGTGGTTCTAATTAGATGAGGCAGGTTGTTCCCTGTTGAG  
GGTTTTGTTTTGTTTTGTTTTGGTCTGAATAGGTAGGCAGTTACACAGTTGTTTTAGG  
AAAATTATTATTCTTTAAAGTCTTAAAGTTAATAAACAGGAGATTAGGAGACTTTAA

FIGURE 3LLLLL

- [T,G]  
TAATGCTTAAGATAAAAGGTTTCATTTCTCTCTCTGTCTCTGTCTTCACACAGAAC  
CTTCTACATGGTGTGTGTTTAAACAAGCACTTGATAAACTGTGGGAAAAAGATTTTAA  
ATTAGATTTAGGAAAAATAGACTTCAGTTCTCATTTGTTACAAGAGGAGCCCTCTAACTC  
CCTGCTGTAGACACAGCCATTTCTCAGAGTTGGAGTGTCTTTGGCCACTTTGGGTAT  
AAAAATGAACTACTATCAATTTATTGTCTCACAAGAGAATAGTATATTATATTCAAGA
- 337934 TTCTCTGTGTATCAGAATTTGCTGACATAGGCCAAAGACTGATATCTGTAAAATTGGGG  
TTGAATTTTTATTGAAATTTGGATATTATCCTCCTTTTCAGTGAATCCCTTGGGATCACCA  
ATTTGTGAGGGAGTCAGGCCCTTCTTGGCCAGTTTGTAAATCTCCTCCCTTACATCTTCA  
GAGGCCAGCTTCAGCCAAGTGGGACACTGCACTGACAGGAGGAGCCGATTGGGACAGG  
CCCTTCTGGGAGCAGGCATGCAACTCATGATGTGGCAGTCAGGAGCAAAAAAACCT  
[C,T]  
CTTTCTTTAAAAATGTA AAAATTTGCTTACTATAGTGGTTTTTTTATTGCAATCTTATGA  
ATGTAGCTCTAGAAGATCTTTTTAAAGCAATTCATTAGAGTTAAATACATTTCACTGA  
GTTTTCAAAAAGCTTTAACTTCATGTAAACTTAGTCTGTTTTGTTTTATTTTTAAATGATC  
TGTCATGCCCTGAATTTCTGTTTTGTAGTCTATGCCTCCTGGGTCTAATAATAGCACAAG  
ATCTTCATGCCAGCTTGACATTTAAAAATCACCTTCTAGTTTGCCTCATTAAATCAAGA
- 341242 GATTGTATTATTGAAAGATTTGTGGCATTGTGTCAAAGCCACCCTAGCTAGCCTTC  
CAAGCACCATTACACGAATTTAGAAAAAGGTGTTCTTCACCCCACTTGGTGACAGCTTTT  
TGTTACAGCAAAAAGCTTGTGAGCATGAGCAACATTTAGCCCTTATTGCCCCCTT  
GGCTGGGCACCTTTTGTAGATACAAGCTTTACATCTGTACAAGGTGCTTATTTTTGTC  
TTCTCCACCTTTATCTCCTCACAATGCCTAGCATAGCACCTTATATAGAGTTATTGTCA  
[T,C]  
TAAATAAACAAATGGAGACTTTACATCTCAAATATATAAACTACTTTCTGTAACTTTAAAC  
ATTTACCTCATGAGCCCTTGGATAAAAAATAAATTTGGGACTATTAAAGATGTCTTTTGTAG  
AAGATACAGAAATGGCCAACAAACATGAAAAATAGCATCACTAATGATCAGGAAAAATGC  
AAATCAAAACCACAGTGCAATACCACTTTATTCCTATAAGAATAGCCATAATCAAAAAAT  
CAAAAAATAATAGATGTTGGCGTGGATGTGCTAAAAAGGGGACATCGTTACACTGCTGGT
- 341261 TTTGTGGCATTGTGTCAAAGCCACCCTAGCTAGCCTTCCAAGCACCATTACACGAAT  
TAGAAAAAGGTGTTCTTCACCCCACTTGGTGACAGCTTTTTGTTACAGCAAAAAGCTTG  
TCAGAGCATGAGCAACATTTAGCCCTTATTGCCCCCTTGGCTGGGCACCTTTTGTGA  
GATACAAGCTTTACATCTGTACAAGGTGCTTATTTTTGTCTTCTCCACCTTTATCTCCC  
TCACATGCCTAGCATAGCACCTTATATAGAGTTATTGTCAATTAATAAACAAATGGAGA  
[C,T]  
TTTACATCTCAAATATATAAACTACTTTCTGTAACTTTAACTTTACCTCATGAGCCCTT  
GGATAAAAAATAAATTTGGGACTATTAAAGATGTCTTTTGTAGAAGATACAGAAATGGCCAA  
CAAACATGAAAAATAGCATCACTAATGATCAGGAAAAATGCAAAATCAAAACCACAGTGCA  
ATACCACTTTATTCCTATAAGAATAGCCATAATCAAAAAATCAAAAAATAATAGATGTTG  
GCGTGGATGTGCTAAAAAGGGGACATCGTTACACTGCTGGTGGGAATGTAACTAGTACA
- 346129 TTATGTTTATATTAATAGACACACAGTTTCCAATTGGTATTTGATGCCTCTTTCTA  
AATATGAATTTGAAAACCTAAGGACCACTAATTTTGA AAAAGCTAAAAATAGACAGTCTA  
AAACAAGCACAGGGAGGATAGACATAATTAGGGAGCAGATGAAAAGAGAGACAAGAATAA  
TATGGCCACAAAAAAGCACCAGAAGCTCTAAAATAGAAGGCTCAATTTGTTCTTAAATTG  
AAAATGTAAAAACATTGAGTAGAAATAAAAAATAAATGGAAGAATTGGATGATCAAGTTG  
[C,A]  
AAGTCTCCACAGAAAGTCAAAACAAAAAGACAAAGAGATGAGAATTGTAGACATGGTAACAT  
CTGACTAATAGAGGTCTCAGAAGGAACAAAGAAATCAGAAGAGAGAAAACTATCAAGACT  
TCTTTCCAAGATTGAAACATTAATTTCTAGATTGAAAGCCTTACCAAGTGTCTGGCCT  
CAACCATCACATTCAAAGGACTAAAAATTTGGAGTGCCACAAATTTATCAACAGCAGAA  
GCTGTACGACAGGAGAGCTATTCTTGAATTTCTGAGGGGAAATTTTCCAACCTAGAG
- 350106 GTGAAATCTTTTGAGGAAAAAGACACCAATGATCTTTCTATTAACTTATAAATGCTTCCA  
CTGATCAGCAAAAGGTAGTTCAAAATTTCACTACTCAGTCCTGATGCTCAGATAATACCAG  
AGTAGTCAGGGTGACACTGTTGTGCTTCTGACTGGTAGAAAATGTTTTGCTTTCCATTTT  
TCAAAGACAGTTGTTGACAGATAATCCATTCTCTTTGTGTATGTATGTATGTAATGAAAA  
TAGCCACCGTGAGCTCAGTAAACCCCTCCTTACTAAATGTACACAAAAGTCCATTTTCAG  
[G,A]  
TGTTTGTATTATTGTGAAACTTGGTTATGTACAATATCATGAACATATAAACTTCCCCCTT  
CATGCTCATTTGCTGTTTACCAATATGATTCCCTTGAGACTCCAGCATTAGGTGCTATA  
TGGCTGTACAAATTTGGTTTGGGATTGCTTTGCTTACAGTCATCTCACCTCAGAACCCAC  
TTAGCAGTTTCTATGATTCTCAGGGAAGTGCTTCAGCAGAAAGTAGACCTTTAGGAATTA  
GAGACAAGTTACAACCAAAAGGAGGGACATTCACCTGCAGAAGCTTATAAAAGCACATGAG
- 351103 GGTTTTGCCTTCAGCTGAAGGAGACTTTATTCTCTTATATTATTTCAGAAAGAAGTAAGAA  
TGATTGTAAATATAGACAATTTCTTAGGTAGAGGGCTAGAAAGGTGAAAAGGGTGGTTAA  
ACTCAGTCATCGCTGATCCTCAACTTAAAGTCTGTTCCACTAATCTTTATTTTGTATTA

FIGURE 3MMMMMM

- CTGAATGCATATATAATGAGCTACGTTAACATTGGGTTTTACTGTACATTATGCGTAGTA  
TAATATATAGAAAGTCTGATCCCTCTTTTTAAATAATATATAGAAATCCAACTTTATCA  
[A,G]  
TGTAACATACTGAGTTTGAGGTGTCTATAGATCATCTTAATGGAGATGTCATACAGATT  
AGTTTTTCATTTTTAAATTTCTCCCTATTTTCATTGAAAATATGATTCACTATATAAAATTG  
TAATTAATATAGATATATTACATAAAAGACAAAGGAGAAGCTCTATACATATGGATGATCA  
CATACTAATGGAAGATTTTTTAAATTGTAATTAATATTGTTTCCTAGACAAGTCAGTAG  
GATTGAGTATACAAGTTGAACATCCCTAATCTGAAAATCCAAATCCAAATGCTCCAAA
- 351139 ATATTATTGAGAAAGAAGTAAGAATGATTGTAATATAGACAATTTCTTAGGTAGAGGGC  
TAGAAAGGTGAAAAGGGTGGTTAAACTCAGTCATCGCTGATCCTCAACTTAAAAGTCTGT  
TCCACTAATCTTTATTTTGATTACTGAATGCATATATAATGAGCTACGTTAACATTGGG  
TTTTACTGTACATTATGCGTAGTATAATATATAGAAAGTCTGATCCCTCTTTTTAAATAA  
TATATAGAAATCCAACTTTATCAGTGTAAACATACTGAGTTTGAGGTGTCTATAGATCA  
[T,G]  
CTTAATGGAGATGTCATACAGATTAGTTTTCATTTTTAAATTTCTCCCTATTTTCATTGAA  
AATATGATTCACTATATAAAATTGTAATTAATATAGATATATTACATAAAGACAAAGGAG  
AAGCTCTATACATATGGATGATCACAATACTAATGGAAGATTTTTTAAATTGTAATTAAT  
ATTGTTTCCTAGACAAGTCAGTAGGATTGAGTATACAAGTTGAACATCCCTAATCTGAAA  
ATCCAAAATCCAAAATGCTCCAAAATCCAAAATTTTTGAGCACGGGCATGATGCCCTCAA
- 358126 GTAATATTTTCTTATGAGGTTTAGTGTGAGGTTCTTCAGGTAGAAGAAGCACAAGCAGCT  
GCATTTAGTAGACCTGGGTTCCAATCCTAGCTCTACCATTTATCAACTGTATTACATTGA  
GTAATTTAGTGAACCTATCTGAGACTCTGTAATGGAAGTAACTACTTCACTACTAT  
GAAGTAATACTTTTCATAGGCATTATGAAGATTGGAATAATATATAGGGTACTTAGTAAA  
TAATAGCTATTGGTGTATTCTACCACTACTTTTTTAAATTAATAAACTGTGTACTACC  
[G,A]  
CCATTTTAATTAATAAAGTTCCGTTCCCTTTACAAATAAACATTAGTTTTCTATCCCTGCT  
GTAACAAATTTGCCATACACATAGTAGCTTAAACAACAAATTTATTATCTTATAGTTCTG  
GAAGCCAGAAATCTGACAAAGGTCTTATTGAACTAAGATTAAGATGTCAGCAGGGCTGTA  
ATCCTTTATGGAGCCTCTTGGGAACAATCCATTTCTTTGCCCTTTTCAGCTTTCTGAGGC  
CCCCTGCATTCCCTTGGTTCATGGCCTTTTCCTCCATCTTCAAAGCTAGCAGCCTAGCATC
- 361818 TAAAGTTGTATTGGAACACAGCCACACTCATTCAATTTACGTATTGCCCATGGCTGCTTCC  
ACACTGCAAGGGCAGATTTGAGTAGTTCAGGAGGAAGTGTGTTCTCCGCAAGACCAAAA  
CACTTGCTGTCTGGCCCTTTACAGCATAAGTTTCGGCACCCCTGATGTAATAATTGTTT  
CACCATCTTCCACCTCTGACCCGACACACATATTCTCTCATCATCTCTTTCTCCTTCC  
TTCCCTTCTTCTTCTCTTCTCACACACATACCTCATTTTGAATTTGGCAATTATGAT  
[T,C]  
ACTTACAGTAAAGGTAAGCGGAAATACATTTTAATTTTCCCTTTGTCATTTCTCTCCTCCC  
TGTCTGCTTTCCCTTTCTCTACTGCCCTTATATAGAATGTCTGAGGGCTGTGCCCTTTT  
CCCAAAATATTTTGTTTTAAAGGTGGGGTTAGATCTTGGTACATTTTGTGACTTCCATGG  
AAAGTTTTGTGTTAGTATGTGGTCCCATTTTAACTATTTCAGACACCCCCGATTATC  
TAAATCACTTTCACATGGGGCTGAGGTTAAGCTTTATTTCTTTTGGCATGTCCCTACCA
- 362286 TTGACTTCCATGGAAAAGTTTTGTGTTAGTATGTGGTCCCATTTTTAACCTATTTGCAGAC  
ACCCCGATTATCTAAAATCACTTTCACATGGGGCTGAGGTTAAGCTTTATTTCTTTTGG  
CATGTCCCTACCAAGCAGACACTTCCCTTTTGGCTTGAAGGACAAAAGGATGTTTCAAGC  
TGTCTGGGCTTAGGCCCAGTATTGATTATACATTATTTAATTTCTCCTGAAAATTGG  
AAGCAGGACTTTCAGGAATAGAAGTCAGTATTTTCATTTGTTTTAGAATACTTCTAGGT  
[C,G]  
TAATATAATCATCAGTGGTAGATGTCAGCATGATTAGGGGGTGACTTAAGGTAAAGCAAA  
TAAAATGTGAATACAAAGGAAAATTATTTGACAATGGAGAAGTTCGAAGTTTTTGAATA  
ATCATTATTGTATATGTTATTAGGTTTTGGGGGTACTACATTTTGGGGCACCTGTCTTCA  
CTTTACCCATTGAAGGAAAGATGTCATTATGTTATAGTTGCAATTGTTGGGGGATTAGA  
AGTTTGAGGAAAATGTAATGTAACCCCTCCAGTAATTTTACAGAGGATTTTGGATTCTC
- 362869 GAGGATTTTTGGATTCTCTGTGAGCTGCTACTGCATTTGTCTTCACAATTAAGTTCATAC  
GAATGCCAGGATGTGAATGCCAAATAGTTTGAGATTTTAAACAGCAGTGAAGTCAAGGAAA  
TTAAAAATTAACCTCGAAATACTATTTTCATGTTTTACAACCACTTTTGGATGGTGTGTT  
CCTTTTTAAACCTTCCCTAGATCATTGTTACTCTTGGGTTACAACCTGTCTCCTTTTTAC  
CACCAGGTTCTTAAAGTCTAGCACCTACTGCCTCTACTTCCCTCACTCATAATTGCG  
[T,C]  
TCTCAAAACCTGGCAGTCTGGGCTTTCCCTCCCTCTGCACACTGCTAAGCTGACCTCACT  
ATTTCTTCTCTCCAATTATAATAACAGCTCTAAGTCTCAGCTTTCTGACCTTTTTTG  
CTCCATCTGTCAGAAATCGTACCCTTCTCTAAAGCCCTCTTTTCAGTTTTTATGTGGGAC  
TGTCTAATTTCTCTACTTCTTCTGTCTTTTATAGACCCATCTCCCTAGTATGGAGCT  
GGGCTTAAGTGTCCCCAGGTTCTGTTCTTGGACCATTTTCTCCCTACATTCTTAGGC
- 363642 GTGTGCACTCCCATGGAGTGCTTGGCCACCAACACCACAGTACATCTCTTCACATTCTT

FIGURE 3NNNNNN

- CTAAAGCTTATTCTTAAAGCATCTACTCTTTTATGTTACCAAGGCTCCAGTAGATGCTTT  
CCCTCCCTCATCTGAGCTATGGTGGGTAAAGAAAAGGTACCAGAGTCAGACAGATATGGA  
TTTAAATATGGATCCACCACTTACCTGTGTGTGATGTTGAACAAATTTACCTAAAGGCTT  
TCAAATCAGTTTCTTCTTATAAATTTGGGGGTAGGGGAAGGATTTTACCTACCACATT  
[G,A]  
GATTGTTGGATAGATTCCGTAACCTTATGTGAAGGCAGAGAACACTTGGAAATCAGTGGTG  
GTGGAGGTGGTAGTGCTAATAGTGCTAATATCACCATCGTCAATATAATTATTTCCACAG  
CAGCATTTTGTCTTCATATGTCTAGTTACGTCACTGTACTTATTGTCTTGTCTCATTTTC  
AGAATTTTCACTCTCTCGAGGTTTATTATATTTCCCTGTTCCTCAAGAGCATAGAAC  
AGGACTTAAGCATAGGTTTTCCTAAGTGAGTTGAGTTGCATAGAATAGCTATTCTCCCT
- 363730 TTTTATGTTACCAAGGCTCCAGTAGATGCTTTCCCTCCCTCATCTGAGCTATGGTGGGA  
AAGAAAAGGTACCAGAGTCAGACAGATATGGATTAAATATGGATCCACCACTTACCTGT  
GTGTGATGTTGAACAAATTTACCTAAAGGCTTTCAAATCAGTTTCTTCTTATAAATTG  
GGGTAGGGGGAAGGATTTTACCTACCACATTGGATTGTTGGATAGATTCCGTAACCTTAT  
GTGAAGGCAGAGAACACTTGGAAATCAGTGGTGGTGGAGGTGGTAGTGCTAATAGTGCTA  
[A,T]  
TATCACCATCGTCAATATAATTATTTCCACAGCAGCATTTTGTCTTCATATGTCTAGTTA  
CGTCACTGTACTTATTGTCTTGTCTCATTTTCAAGTTTCAAGCTCTCGAGGTTTATT  
TATATTCCCTGTTCCTCAAGAGCATAGAACAGGACTTAAGCATAGGTTTTCCTAAGTG  
AGTTGAGTTGCATAGAATAGCTATTCTCCCTAAAGGAAAATACTGACTCCACAGTGTTC  
TTAAAGTCAGAGCTGGTAAGTTTGTAGCTGTCTCTCATATTTAATCAAACATTATCA
- 365893 GCTGCAGGTTTTAATAGGGTGCCATGGAAAACCTTGCCGAGAAGGTGGCATTGTGTAA  
AGACTTGAGGCGAGTGAACCTGCAATTATCCAAAGGAAGCACATTTAGGGAGAGGGAAACA  
AGAAGTCCACATGCTCCGAACAGGAGTGTCTTTGCACATTCAAGAACAGCCAGGAAGCC  
AATGTCACTGGAGTGAAGAGTGTGAGGGGGTCTAGGGCCAGTTGAAAAAAGTGGGAG  
TAAGTGATTGGTGTGCGATGTCTGATAGATTAAATAGATTGAGAACTGAGGATTGACC  
[G,A]  
TAGGATTAGTGACCTTGACAGAGCAATTCAGTGGGGGAGTGTTCAGAAGTGTCTTTCAA  
TGGGTTTTAAATGAGAATGGGAAGAGAGGAAATAGAAAATGGAAAATGAAGAGAGCTTTC  
CAAGGAGAGTTGCTAATGGGAATGAAAGCAGATATGGAGACAAGGAAGGACTAGATTAC  
ATCTATAAGGTGAGAAATTACAACGTGTTTTATGGTGGTGGTAAAGCTTGACTCAGGTA  
AAAGGAAATGGAACCCCATGCATAAATAGAAGGATTGATCTTGGCAGCACAGATACTTCA
- 366622 AACACCTGCAGTATCCTTCTCATATGGTCATTTGCATATTATCTCTACAGCTGTCTTATG  
TTTGGCCAGCTTATTAATTGTTAATATATCTCTTCTCTTATTGAGCAAAAACCTTTCTT  
CTAGAACATTGATCCTAGTTCTGCTTCCCATAGCCTCCCAAGATGGACAGTTCTAATTTT  
TCTATAGAAGAGCCTTTGAAGGACTGGAGGACTGATGTGGTTTCTCAAGGCCGACCTCAT  
TCTGCTGATTCTAACACCTAGCCCTTCAGTGTCTCTGCTGGCATGTGTGGTTCAACCC  
[-,C]  
TGTCACTTCAGACACTCTCATCTAACAGGGCCAGGGTATTTAATCAGTTTCATTGTCT  
AATCAGGCCCTCATTGGTCCCGGCTTTGGTATCTGTTTTTCTCCAGGCTTTTTTCTACA  
TATTTAGTGTCTCTCAAAATACTAACATTGAACCAGCATGCCATTAGATTATTTATT  
TATTTCACTAGCTTTAGGGGTACAAGTGGTTTTTGGTTACATTGGATAAATTGTATAGTGG  
TGAAGTCTGGGCTTTTAGTATACCCATCACCCAAATAGTATACATTGTACCCAATAGGTA
- 370992 CAGAAGTCCAGCCTTGACAGAAGCAACTGGGGGAGCTCTCCTTGAAAGGCACTGAGGTC  
TTTGCAGGAGAAAGGGAGGGAGCCACCTCAGCTTCTCTTCCAGACCAGCACGAAAGCAAT  
CTGCCTCCCTGTCACTCATGTGCAATGTTCTGGATATTAGATCAGACGAGGCACTT  
CTGTGGATCTGCAGAAATGCTGACATTCATGTAGAGAGGGATTGTGAACCTACCCCAAAG  
TGCTCCAGAAAGGCCATCCATAGGTGCACCCAGCCAAGCTCTGTGGAGGAGTCCAGC  
[G,C]  
ACGTCTGCAGTGATAGGCAAGGGTAGAAGTCCCTTCTCCAGGTCCCTTCAAGGCACT  
GGGGCTGCCCACTGTCTGGGGTAGAATGACAGTCTTTCTACCACTTAGCCAGCACTGCA  
TCTGTGCTCTGTCTGAAAGAACTTCCCAAGCAGAAAGTTCTAGGACTCAAAGGCTGC  
ACTCTAATTAATTTTGTCCACAGGGTGTCTCCCTGATATGGTACCCTTTCCCTTCCCT  
AGGAGTGACAGTCCCTTAGGGCAAGACTACTGTAAATACTGTCTCTCTAGGTATAGC
- 371475 TCTAATTAATTTTGTCCACAGGGTGCTCCCTTGATATGGTACCCTTTCCCTTCCCTAG  
GAGTGACAGTCCCTTAGGGCAAGACTACTGTAAATACTGCTGCTTCTCTAGGTATAGCCA  
CCCTGTGGGGGCTGCCAATCCAGGCTGGTGTCTGGGAATGTCTACAAGGGATCCAGTG  
ATGTGAAGATACAAGGGTTGAAGGATCCCTGAGCAGAACAAAGTCCCAACCTATGTGCA  
CGAATATGGCAGCCGCTACTACAGCTCAGGCCTAGGGCAAGAGGGAAGGGACACTATGCA  
[G,A]  
ACAAGGCAGTGCCCTCAAGAAGTCCCAAAATCGCAATCCACTCTGTACTTGTGCTTACA  
AGGGCAGAGACACTCTGCCTGAGTTTCAATGCCAGAGTCTGCCACAAGACCTAGAGATG  
CTGAGAGCACTCCACCTACCTTTTCCAAAGATTACTGAGCCTCTGGGGGTTTGACCTCT  
GCCAGCTTCTTGTAAAATAAAGCACACTTTATTTGTGGCTGTATCATAGATTCTCCAG  
TGAACCTGTGTATAGGCTCTAGCACTCTCCCTTAACACTCCATTGGGCTATGATTATT

FIGURE 3000000

10/506549

- 373927 GGCTGCAGTGAGCCAGCATCACACCACCTCACCAGCTGAGCAGATCTTGTCTCAAAAGC  
AAAACAAAACAAAAAAGATAAAGCAGAGAAAAGCGTGAATACTATGCTAACATTTTTC  
GGGAAGGTGGCAGGAGAGGTGGGAAAGCGTCCCTTTATCAATATATCCCAGCTAATGAAT  
GAAGAAGGAATAACAGAAATAGGATAGCATCATTTTCAGCCCTTCATGAATCAAAAGAC  
CTGGACAATCATAAGTGGCTACTAACACATGAAAAGAAGAGCAGCCATACATTATGTGCA  
[A,T]  
CTCAGCAATACCTATGAAGTACTTGTTCAAAAAATAAATCAAACCTGAAACTCCCC  
AAGCCTCTAGATCTTAATACAAGTTAATAAGAAATACAGGAGGCAGGAGATGTTAAATAA  
CACCAGAGGGATGAGGAAGCAAAATAAGGAATATGGGAGACTGGATAGGATATATAATT  
CTGTTCTTGAACATAAAATTTAAGGGAAGAGAAAGAGAAATCCCTTAGATATGAGAT  
ATAGTAACTAAATGTAATGTGTACACCTATTCTGATCCCAATTCAAACCAACCATCTGT
- 374062 GAGGTGGGAAAGCGTCCCTTTATCAATATATCCCAGCTAATGAATGAAGAAGGAATAACA  
GAAATAGGATAGCATCATTTTCAGCCCTTCATGAATCAAAAGACCTGGACAATCATAAG  
TGGCTACTAACACATGAAAAGAAGAGCAGCCATACATTATGTGCATCTCAGCAATACCTA  
TGAAGTACTTGTTCAAAAAATAAATCAAACCTGAAACTCCCCAAGCCTCTAGATCT  
TAATACAAGTTAATAAGAAATACAGGAGGCAGGAGATGTTAAATAACACCAGAGGGATGC  
[G,A]  
GGAAGCAAAATAAGGAATATGGGAGACTGGATAGGATATATAATTCTGTTCTTGAACAT  
AAATTTTAAGGGAAGAGAGAAAGAGAAATCCCTTAGATATGAGATATAGTAACTAAATGT  
AATGTGTACACCTATTCTGATCCCAATTCAAACCAACCATCTGTGAAATATACTGACTG  
GTAATGTGAACACTAACTAAATACTGATAATGTTAAGGAAATGTAGCTAATTTAATGT  
GGCATAAAAGTGTACAGTATATCTTTAGAAATACACTAAATATTTATGGGTAAATAT
- 374489 TCACACCTATTCTGATCCCAATTCAAACCAACCATCTGTGAAATATACTGACTGGTAAAT  
GTGAACACTAACTAAATACTGATAATGTTAAGGAAATGTAGCTAATTTAATGTGGCATA  
AAAGTGTACAGTATATCTTTAGAAATACACTAAATATTTATGGGTAAATATTTGTAT  
TCTGAGATTTGCTTCAAAAAATTCAGTGCAGTGTGGAGATAGGATTACAGTGTAGATGC  
AACAAAATTTGGTCATGAGTTGGTCATTGTTAAAGTGGGTAGCAGGCGAGTGATTTCACT  
[C,G]  
TATACTGTTCTCTGACTGTTGTATGTGTTGAATTTCTATCGTTAAAAAATATTAAGA  
AGAAAACAAATAGCATTATCTTTCCCTAAGTGTTCACAACTCCTCTGTCTCCCTTTTC  
TCCTATTTTCTAAGGAGAAAGAAATGAGCAAGTTTACAAAGTGGGGTGGAGCTGTTGTGA  
AAGATACTTCAAATCATTTTCTAGCTACTCAGAAATATAGCATGAAGTCAAAGTCTCTA  
GGCTTGAATGCTGTGACCTCATTCTTCCCTCCAACACATATTTCCAGTTATACGCAC
- 375527 CGTGGTGGCTCATGCTGTGATCCCAGCACTTTGGGGGGCCGAGGCTGTCAGATCACAAG  
GTCAGGAGATCGAGACCATCTGGCTAACGGTGAAAGCCTGTCTCTACTAAAAATACAAA  
AAATTAGCCAGATGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCCAGAGGCTGAGGCAG  
GAGAAATGGTGTGAACCCAGAGGCGGAGCTTGCAGTGAGCCGAGATTGTGCCACTGCACT  
CCAGCCTGGGGACAGAGTGAGACTCCATCTCAAAAAAAGAAAAAGAAAAAGAAAA  
[A,-,T]  
GGCACTAGAAACAAGCAGCCCCATTGCAGCACGCTGAACACCGTTTTTTGGAAGCATGC  
ACCACTGAGCAGGAATTCAAAATGGCACCTTTGCAATAGTACATTTTGAGGCATTGTGT  
TGCCAAGACAGAAAGAAGAGAGGAAGCAGTGTATAAGCACCACAAATTTACATATACATA  
GAAAAGGATAGAGGCGAGTTTTTACATCCTCTCTCTCATTTTCTCCACCAACCAACATC  
GGCCTGACTCAGATTACCTATCCAGCCCTCCTAAGGATCTTCACTTCTCTCCCTAGAAA
- 375885 TGCACCACTGAGCAGGAATTCAAAATGGCACCTTTGCAATAGTACATTTTGAGGCATTG  
TGTTGCCAAGACAGAAAGAAGAGAGGAAGCAGTGTATAAGCACCACAAATTTACATATAC  
ATAGAAAAGGATAGAGGGCAGTTTTTACATCCTCTCTCTCATTTTCTCCACCAACCAACA  
ATCGGCCTGACTCAGATTACCTATCCAGCCCTCCTAAGGATCTTCACTTCTCTCCCTAG  
AAAATACAGAGTTGCTCTGTGTGTACAGTGTGAAAACACACACACATGCATGCGTGC  
[G,A]  
TACACATACACACACACACACACACTTGATTGGTGCATAGGAAGTGACCTAATTC  
AGTTTGTCTCATCATAGTGACAACTAGACTGAGCCAATCAGAGACTTTCTGTAGGGTTT  
TGATTACTGGAATTGAGAAAATGAGGGCTTTCTGGTGGTGAAGCTGTGAGATGTAAAC  
ACAGCAACTGTTCTCTGGTCTGTGAAGCCAAAGTACGGAGAGAAGCAGAGACAAAATCTC  
TCTCATCGAGACGGAATCCCGATGGCATCCAGGCCCTGCTTCCAGCTGGTCCGCTGAG
- 376687 AGATAGTGTGAAAACCACTCATGAGTCCCTTTGCTTAAAGTTACCCTGGTCATGTTTAT  
TACAGCATGTAAAGGTACATAGCCTTAAAGTCTTTTCAGGACTTGGGATTTTCTTAAAG  
AAAACAAATCAAGAGTGTTCATTAAAGATTGATATAAAAAATTAATAATTCTGAAGTTA  
ACCCAAAATCTAATGTAATCTTCCATTGGAACATTGTGTGATGTGTGGGGGTTTAAAT  
TTCCACAAATATTATTAATGAGCAATCAGCAGCAAGATGTTTTAAATATTTTGTTC  
[C,A]  
GCATGTAAAATCTCGTTTTATTACAGAAATATTTTGTAAAGGCACAGCTATGCCAGGTT  
GCTGCCAGAGTGATAGGATCATAACAGCCAGTTAATTTTAAAGACTCACAAGTGGTAG  
GCCTTGGAACTACTGATGGCAACATGTACATCATTATTAGTATAATGCTTAAACTTACA

FIGURE 3PPPPPP



# FIGURE 3Q

- CCGCACTCCTCCGCCCTGTCCATGGAAGATTGTCTTCCACGAAACCACTCCCTGGTG  
CTAAAAAGGTTGGGACTGCTTATCTAGATCATATGAAACATAAGTAACTAAAAATACTA  
TAGATTGGCCAAATCTGGGAAGATGAACATAGCATGCATCTTTTGAAGAGGTAGTTGT  
AGTTAAGTAACTATTAGTTAGCAAAACATACCTTGACTATTTACATAGCCAGAGCACAA
- 387449 ACATGGTGGAAGGGGCCAACCACTCCATCAGGCTTCTTTATAGGGGTAATAATTCTGT  
CAGTGAGTACAGAACGCTCACAACTAATCACCTCCCAAGACCTCACTTCTTAATACTA  
GTAGCATTGGAGATTAAGTTTCAACATATACATTTTGGAGAAAAACATTTCAGACCATTTGC  
ACTGGGTAAAGAAAAATCAAACTGACCATCATTAGTAGCCTTTGTAAAACTTTAAATTT  
CTATTGTGCACCATGGGGAACAGAATATATACAGGTTGAGTATCACTAATCTGAAATCCA  
[C,G]  
AGTGCTCCAAAAATTCAAAACTTTTGTAGTACCAACATAACACACAAAGGAAATGCTCATTG  
GAGCATTTTGGATTTCAAATTTTCAGATTACAAATGTTCAACCAAGTAAGTAGAATGCAGA  
TATTCAAAAATCTGTAACTATGTCTGGTCCCCAGCATTTTCAGATAAGGAATACTCAGCCTG  
TATAGTGTGGCCAAAACTTATTTGACCATGGAATACTTCTCTGAACACACTGATTTCCT  
TAACGGAAATGCTGGCGTGGACCATGAGAAGAGCAGGAGAGCTGCATTTTCTTGGGAGA
- 389096 CTTTTATTAACTCAGAAAGTTCTCTAGGTCATCCCTATCTCATCCAACCATTAGTGAT  
CTGGTCAAACTCTGTCCAAGTTTCTATATCTCAAGTTTGTAGTTCTCCAAGCTAGAT  
GGAATTTGTTTAAAGAGACAGGGGAGTAAATATAGTAGGAAATTTTCCCAATGTTG  
ACATATACTAGAGGCCCAAGTTACAAACATTCACATTTTCAGGTGGTCACTACTTCTCTG  
ACCATAACTGATCACTAAAGCCGCTTTGTCTATTACCATGTAAGCCACCACAAAACAACA  
[T,C]  
TTATAGCTCATAGAAAAATCTATAGAAGCAGGCTGGGCTCGGGGGCTCACACCTGTAATC  
CCAGGACTTTGAGAGGCCAAGGCGGGCGGATCACAAAGTCAAGGATCGAGACCATCCTG  
GCTAATATGGTGAACCCCATCTCTACTAAAAATACAAAAAACTAGCCAGGCGTGGTGGC  
ACGCGCCCGTAGTCCCAGCTACTCAGGAGGCTTAGGCAGAGAATCGCTTGAACCCAGGA  
GGCGAGGTTGACGGGAGCGGAGATTACGCCACTGCATCCAGCCTGGTGACAGAACGAG
- 389998 GGCAAAACCGCCCATCTGGCCATGTGAATCAAAACCCAGAAACGTTGAGAGGTTCCAGGCA  
GCCTTTTGGTTACCTCTCTTTTCTCAACCCCTGCTCTTTTCCAACCCCGCCCTGGCCA  
CCATGGTACACATGCTCATCTGGCCACTCTGTTGGATGTGTTTCCATCAGACTTTACACA  
TACCCCTATTAGCAAGATCACTGCATGTGCAAAAAACAGGAGATATCAGTCATATAGCA  
AATGAAATAGTACAGTAATTAATATTGTCCACTCACATAGTAGGTGCTCAATAAATGTT  
[T,C]  
CCAACCATTTATGTGCCAGGCTCTCTATTCTCTGAGGGAGTCTCAGCTATGAGGGGTGGGG  
GAGGTATGCAGGAGAGAGAAAGAGAGCTCCGTCACTGGCAGGAAATGTAGTGCTCTTTG  
CCTCTTCCAGTGATTCTTCAGACTTCTTAGCCTTGCAACCATTGCTTCAAATTTCTGTCC  
AGATGAAAGAAGTGCTGCTCAGAAGGGTGTGGGTGGGACTCTTCCCACTTGGTCCCTTC  
ACCTCCCTTTGTAGAGATCTCAAGGTCCCCTTAGAACACAGTGGAACCATTTGGATAGCC
- 392964 ACAGGTGTGCACCAACACACGCGAGCTAATTTTTATATTTTAGTAGAGACAAGTTTCAC  
CATGTTAGCCAGGCGGCTCGAACTGCTGGCCTCAGGTGACCCACCCACCTGAGCCTCC  
CAAAGTGCTGGGATTACAGGCGTGAGCCACCATACCTGGAGAGGTTTGTGTTTTGTGTT  
TTTTTTCATAAAATGCTTTTAATAAATCATATGAAGCATTATGTTTTTACTTATACATA  
TTTTCAGGGTACCAGTAACTTTTAGTTCAAAGATAGGCCAAATTTGACTTTTTTTTTT  
[-,T]  
ATGAGACAGAGTCTCGCTGCTCTGTGCGCCAGGCTAGAGTGCACTGGCGTGATCTAGGCT  
CACTGCAAGCTCTGCTCCTGGGTTTACTTACGCCATTCTCCCGCCTCAGCCTCCTGAGT  
AGCTGGGACTACAGGTGCCACCAACCATGCCTGGCTAATTTTTTTTTTTTTTTTTTTA  
TTAGAGACAGGGTTTACCGTGTAGCCAGGATGATCTCGATCTCCTGACCTCGTGATCC  
GCCCGCCTCGGCTCCCAAAGTGCTGGGATTACAGGCATGAGCTACTCGCGCCTGCGGCC
- 393018 TTTACCATGTTAGCCAGGCGGCTCTCGAACTGCTGGCCTCAGGTGACCCACCCACCTGA  
GCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCATACCTGGAGAGGTTTGTGTTTT  
TTGTTTTTTTTTCATAAAATGCTTTTAATAAATCATATGAAGCATTATGTTTTTACTTA  
TACATATTTTACAGGTACCAGTAACTTTTAGTTCAAAGATAGGCCAAATTTGACTTTT  
TTTTTTTATGAGACAGAGTCTCGCTGCTCTGTGCGCCAGGCTAGAGTGCACTGGCGTGAT  
[C,T]  
TAGGCTCACTGCAAGCTCTGCTCCTGGGTTTACTTACGCCATTCTCCCGCCTCAGCCTC  
CTGAGTAGCTGGGACTACAGGTGCCACCAACCATGCTGCTAATTTTTTTTTTTTTTTTTT  
TTTTTATTAGAGACAGGGTTTACCGTGTAGCCAGGATGATCTCGATCTCCTGACCTCG  
TGATCCGCCCCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCATGAGCTACTCGGCCCT  
GCCGCCAAATTTGTAATCTTAAACATATTATGTTGCATTTCTAAATATGTATTTATGCTT

FIGURE 3RRRRRRR

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